





## Repairing facades the systematic way

With the tried-and-tested solutions from Remmers

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## Timeless brick facades

Systems for preventive protection & durable repair





## A history of brick masonry

## The history of one of humanity's oldest building materials

Along with wood, stone and plant fibres, bricks are among the oldest building materials known to humankind. Earthen clay is mixed with sand, moulded and fired in kilns. The first bricks were shaped by hand, giving them irregular dimensions.

The production of waterproof blocks by firing dried moulds of clay or loam was already common in ancient times. Unlike unfired clay, which softens as a result of water entering the molecular structure, fired clay is no longer plastically deformable. Heating to 800 to 1000 °C makes the clay waterproof. In the process, water is expelled from the pores in the brick. Air now occupies the freed pore space, and the structure is porous and water-absorbent. A denser structure can be achieved by further heating to 1200 to 1300 °C. At such high temperatures, melting starts to occur. This creates a largely waterproof clinker from a porous, water-absorbent brick.



approx. 7500 BC

The oldest bricks (still mud bricks) were found in 1952 during archaeological excavations in Jericho (7500 BC).



#### approx. 3000 BC

Smooth-textured bricks have been documented since about 6300 BC in Mesopotamia. At the beginning of the third millennium BC, fired clay in brick form was used on a large scale for the first time.



#### approx. 600 BC

The Ishtar Gate, built under Nebuchadnezzar II (604 to 562 BC) and now in the Pergamon Museum in Berlin, is a remarkable testimony to the level of perfection achieved in Babylonian times with regard to techniques for firing and glazing bricks.



#### approx. 100 BC to 400 AD

Thanks to the Romans, building with fired bricks became widespread throughout the Roman Empire. Roman bricks are typically thin bricks, which can still be seen today on various buildings from this period, although they were probably rendered or clad in their original state.



approx. 12th to 15th century During the Gothic period in northern Germany, due to the scarcity of suitable natural stone, the so-called "brick Gothic" style developed its own architectural language.



approx. late 19th century Until the Neo-Gothic period in the 19th century, most brick buildings were "hidden" under rendering.



#### approx. 1920s

Prominent brick buildings were also constructed in the 20th century. The period of the so-called "Brick Expressionism" is particularly noteworthy. Particularly impressive buildings were erected in the major cities of northern Germany, in the Ruhr region and in the Netherlands.



#### from approx. 1960

The single-skin brick facades that were still common in the post-war period are no longer being built. Since then, brick masonry has enjoyed great popularity as facing masonry.



from 1963 Remmers starts to establish a comprehensive product programme for the repair and maintenance of brick facades.



### 2000

Remmers patents Funcosil facade cream for the effective protection of brick facades against driving rain. A new generation of protective substances revolutionises the market.



#### 2010

In 2010, the Bernhard Remmers Prize is awarded for the outstanding restoration of Kaispeicher B, the oldest building of the Speicherstadt district in Hamburg.



#### 2017

The Elbphilharmonie concert hall is opened. The existing facade is repaired and given a hydrophobic treatment in the Remmers system.

## Remmers cleaning products

## Because dirt is no protection

Encrusted dirt does not look good and offers no protection for a facade. Due to its large inner surface, a dirt layer is an excellent absorber of moisture and pollutants. These usually react on the underside of the encrusted dirt and produce damage, even if it is still hidden at first.

### **Chemical cleaning**

Acidic cleaning agents are usually used, the active principle of which is essentially always the same: The acid component penetrates or migrates behind the encrusted dirt and causes it to dissolve, while surfactants enable the surface to be wetted, encapsulate the dirt and thus enable it to be washed off. Remmers BFA has a different active mechanism and is also very easy to handle. It can be used to remove all kinds of biological contamination, as well as offering preventive protection against new biological growth. Clean Galena is an innovative special product for removing deposits of lead and heavy metals that are harmful to health and the environment from facades. For every cleaning operation, the mantra is the same: "As intensively as necessary but as gently as possible". Since an extremely wide range of substrates as well as types and intensity of contamination are possible, it is not always easy to make product recommendations. In case of doubt, we recommend testing out products on representative trial areas.

Remmers solution	Range of use	Properties	Page
Clean WR	Removes lime and mortar skin	<ul> <li>Acidic cleaner</li> <li>pH value approx. 1.0</li> <li>Ready to use</li> </ul>	40
Clean AC [basic]	Loosens mortar residue, lime and scale	<ul> <li>Acidic cleaner</li> <li>pH value 0.8 (10% solution)</li> <li>Powder concentrate</li> </ul>	40
Clean SL	Removes dirt, encrusted dirt, dust, oil and grease deposits	<ul> <li>Surfactant solution</li> <li>Surfactant content approx. 10%</li> <li>pH value approx. 11.5</li> </ul>	41
Clean FP	Loosens heavy urban dirt	<ul> <li>Cleaning paste</li> <li>pH value approx. 5.0</li> </ul>	41
Clean Galena	Emission-free peel-off paste Removes surface impurities, especially heavy metals	<ul> <li>Emission-free</li> <li>pH value approx. 9.8</li> <li>Dries to form an easily removable skin</li> <li>Binds and complexes surface impurities and heavy metals</li> </ul>	43
AGE	Paint stripper and graffiti remover	<ul><li>Biodegradable paint stripper</li><li>Highly effective</li><li>Long open working time</li></ul>	45
BFA*	Removes biological growth Preventive protection	<ul> <li>Combination products for surfaces with or susceptible to green growth</li> <li>Excellent long-term effect</li> <li>pH value approx. 7.5</li> </ul>	44



## Remmers rotec vortex technology

Mechanical cleaning

With vortex technology, the blasting particles do not hit the building material surface perpendicularly due to the rotation of the mixture of air, water and blasting material, unlike in conventional blasting methods, but rather at a much flatter angle. They glide over the surface and are not "fired" onto it. As a result, dirt is removed extraordinarily gently, and the degree and intensity of cleaning can be freely selected. From "just like new" to "preserve the patina", everything is possible. The rotec vortex technology from Remmers is a logical refinement of the so-called "Jos" process; with the same cleaning effectiveness, nozzle wear is significantly reduced. The rotec glass powders are tailored to this technique with regard to their physical characteristics such as degree of hardness, grain shape, size and fraction and play an important role in achieving optimum results.



Remmers solution	Range of use	Properties	Page
rotec turbine	Patented swirl unit Gentle cleaning of all kinds of dirt and grime	<ul> <li>Cleaning intensity can be adjusted to dirt level</li> <li>Gentle on the building substance</li> </ul>	46
rotec spacer	Accessories for pressure blasting equipment from Schmidt Sandstrahltechnik	<ul> <li>Excellent resistance to heat, water and steam</li> <li>Excellent sealing technology</li> </ul>	45
rotec glass powder	rotec soft jet granules, no risk of silicosis	<ul> <li>Gentle on the building substance</li> <li>Optimum performance with minimum removal</li> <li>No risk of silicosis</li> <li>Environmentally friendly blasting material</li> </ul>	46

## Remmers spiral anchor system

## Simple and durable crack repair

Cracks can occur in brickwork for many reasons: temperature stress, foundation subsidence and vibrations, to name but a few. Whatever the cause behind each individual case, the result is the same: a crack in brickwork is always a significant disruption to the structural system and must be repaired. With the Remmers spiral anchor system, masonry sections are reconnected to each other in a simple yet highly efficient way, so that the bond is reestablished. The spiral anchors only require minimal intervention in the masonry to be repaired, as they are laid in the joints. This means that even cracked stones can be reused. This is also one of the reasons why spiral anchors enjoy high acceptance in the field of monument conservation. In this way, cracks in facades and around lintels, openings or arches can be repaired successfully and cost-effectively.

Remmers solution	Range of use	Properties	Page
Spiral anchor mortar M20	Machine-workable jointing mortar with high sul- phate resistance for embedding spiral anchors	■ Good flank adhesion ■ Suitability test MPA BS ■ Compressive strength (28 d) ≥ 20 N/mm <sup>2</sup> ■ Maximum grain size approx. 1 mm	47
Spiral anchor mortar M30	Machine-workable jointing mortar with high sul- phate resistance for embedding spiral anchors	■ Compressive strength (28 d) ≥ 30 N/mm² ■ Maximum grain size approx. 1 mm	47
Spiral anchors	Rolled, twisted spiral anchors with two threads made of austenitic stainless steel for masonry renovation	<ul> <li>Uniform, even introduction of force and high tensile load-bearing strength</li> <li>Elastic behaviour like a strong spring</li> <li>Excellent composite characteristics</li> <li>Rustproof</li> </ul>	47







### Removing mortar

Scrape out the horizontal joints of the masonry at a few previously defined points to the same distance right and left of the crack. Clearing depth approx. 6 cm.



## 2 Cleaning joints

Carefully clean loose particles or any constituents that may impair adhesion out of the joint, and pre-wet.



## 3 First mortar layer

Apply first layer of anchor mortar in the joints. Press in the mortar using the mortar gun along the back wall of the joint.



Inserting the spiral anchors
Press spiral anchors into the mortar using a jointing iron.



**Second mortar layer** Apply second layer of anchor mortar. Press in using the mortar gun, use a jointing iron to press again if necessary.



6 Plugging cracks

Fill the crack to consolidate the structure. To do this, first plug the crack on the surface with a suitable round cord.



**2** Filling cracks Fill the crack from bottom to top under low pressure with borehole suspension using a hand press.



**B** Filling in cracks in the stone Seal or grout cracks in the area of the stone with RM/Restoration Mortar.



Repointing Re-point open joints properly and professionally with colour-matched FM/jointing mortar.

# Restoration mortar for stone substitution

## Why replace when you can repair?

The Remmers restoration mortar system was specially developed for restoration or replacement of mineral building materials. So there's no need to replace faulty bricks. Chipped edges, spalling, damaged surfaces or cracks can be repaired more easily, more quickly, just as permanently and usually with less visual impact by applying Remmers Restoration Mortars than by expensive stone replacement. With three different grain sizes, a virtually unlimited choice of colours and the option to mix mortars of different colours, there are no limits when it comes to matching Remmers Restoration Mortars to the brickwork.

Remmers solution	Range of use	Properties	Page
RM	Mineral stone substitution mortar for restoration, substitution and reprofiling Reproduction of ornamental building elements by tamping	<ul> <li>Good flank adhesion</li> <li>Low inherent stress</li> <li>Configurable strength and maximum grain size</li> <li>Various standard and special colours and special configurations possible</li> <li>Can be made hydrophobic</li> </ul>	48
RM pro	Mineral stone substitution mortar (can be feathered out to zero)	<ul> <li>Can be feathered out to zero</li> <li>Can be applied as a slurry</li> </ul>	49







## Remmers joint mortars

## The right joints for fair-faced masonry

Up to 20% of a brick facade can be made up of joints. The shape and colour of the joint therefore significantly influence the appearance. In addition, the joints of a building serve a technical purpose. Their physical and mechanical properties, and above all their response to moisture, are crucial in determining the functionality and durability of a brick facade. An intact joint network is essential to ensuring that a facade can withstand driving rain. Penetrating moisture increases susceptibility to frost attacks and reduces the thermal protection – both of these outcomes need to be prevented.

Remmers joint mortar comprises a wide spectrum of binder systems, grain sizes and strength classes, as well as an array of options when it comes to colour and hydrophilic or hydrophobic properties. This means that they can be adapted to the individual areas of use and requirements in any situation.

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Remmers solution	Range of use	Properties	Page
FM NB [basic]	Cement-lime jointing mortar for new buildings	<ul> <li>Good flank adhesion</li> <li>Various special colours available</li> <li>Maximum grain size approx. 1 mm</li> </ul>	51
FM SAN	Cement-lime jointing mortar for restorations	<ul> <li>Good flank adhesion</li> <li>Can be made doubly hydrophobic</li> <li>Various special colours available</li> </ul>	52
FM TK	Trass-lime cement jointing mortar for masonry contaminated with sulphate	<ul> <li>High sulphate resistance</li> <li>Very low efflorescence</li> <li>Good flank adhesion</li> <li>Various special colours available</li> <li>Can be made doubly hydrophobic</li> </ul>	53
FM TK PH	Trass-lime cement jointing mortar for masonry contaminated with sulphate, pore hydrophobic	<ul> <li>High sulphate resistance</li> <li>Very low efflorescence</li> <li>Good flank adhesion</li> <li>Pore hydrophobic</li> </ul>	54

## Remmers brick jointing

## A simply flawless brick facade

Thanks to the quality of the mortar and the special application technique, the joint is characterised by particularly high-quality and durable flank adhesion. The process is very economical as there is no need to scrape out the old joint. The time spent chiselling and cutting out the joints is also eliminated, and any possible damage to the stone edges is ruled out. The mortar is also applied to the joints with much less effort compared to conventional jointing. Another advantage is that even narrow joints and small cracks are sealed flush with mortar. The bottom line: Around 25% time and cost savings compared to conventional repointing, combined with greater durability.

This pointing technique is combined with hydrophobic treatment. The water-repellent finish on the facade is described very clearly in terms of the so-called "Gore-Tex effect". The penetration of liquid water into the building material is prevented, while the water vapour diffusion capacity remains practically unhindered. On the facade, a hydrophobic finish has several effects: Hydrophobic building materials are permanently dry, which protects them from dirt and biological growth, and they are also much more energy-efficient than the unprotected, and therefore damp building material.



Remmers brick jointing essentially consists of two elements:

- Joint renewal with a fine-grained, sulphate-resistant, refined slurry without the need to scrape out the old joint
- Water-repellent treatment of the facade

Remmers solution	Range of use	Properties	Page
FM FS	Slurry for pointing brick/clinker facades in the facade slurry system Efficient combination of repointing and hydro- phobic treatment	<ul> <li>Especially good flank adhesion</li> <li>Suitable for narrow joints</li> <li>Various special colours available</li> <li>High sulphate resistance</li> </ul>	55
Washing kit	Cleaning pointed surfaces	<ul> <li>High-quality and robust</li> </ul>	56
Plasterer's float, black	Integrating FM FS	<ul> <li>With tear-resistant 10 mm EPDM cover</li> </ul>	56
Sponge float, red	Compacting and levelling	<ul> <li>Medium-pore 20 mm sponge rubber coating</li> </ul>	57
Sponge float, yellow	Final cleaning	30 mm square cut hydro sponge	57
Funcosil SNL	Clear, hydrophobic, solvent-based impregnation	<ul><li>Applied as a liquid</li><li>Solvent-based</li></ul>	58





Pre-impregnation Apply Funcosil SNL under gravity using the flow coating procedure.





**2** Applying the slurry After at least 5 days, use a plasterer's float to apply FM FS over the entire surface. Scrape off any excess material.

Compacting and levelling Then use a red sponge float to compact and level the slurry.



Subsequent cleaning Approx. 30 to 60 min. after slurry application, clean the surface using a slotted sponge float (diagonal direction).



**5** Final cleaning In the early stages of hardening, use clean, clear water to carry out final cleaning.



**Post-impregnation** After 8 days, apply an impregnation of Funcosil SNL to the dry facade.



## Funcosil impregnation agent

## Reliable protection and dry brickwork

Water plays a central role in the weathering of mineral building materials. The aim of a hydrophobic impregnation is to significantly reduce capillary water absorption, as occurs, for example, during rainfall or exposure to splash water. It is a sensible, damage-preventing (prophylactic) measure if the capillary absorption of rainwater or splash water has the potential to trigger or accelerate a damage process, or if corresponding damage can already be observed.

In addition, reducing the moisture content can improve the heat insulation of the facade brickwork. Hydrophobic treatment with Funcosil protects your bricks from damage and saves valuable energy. Regardless of the composition of the active ingredient, the effect of a hydrophobic impregnation is based on reducing the adhesive forces between the pore wall and penetrating water molecules. By diminishing the interaction in this way, the capillary suction that normally prevails is transformed into capillary depression. The range of variations and properties of organosilicon-based hydrophobic agents is very broad. The agent used should therefore be chosen according to the requirements of the substrate. In the past, hydrophobic agents were always liquid and thus only of limited suitability for weakly absorbent bricks. Now, Remmers has solved this problem with its Funcosil FC cream technology, which gives all substrates the time to absorb the required quantity of protective substances.

## What is the surface wetting angle?

The contact or surface wetting angle describes the angle formed by a liquid on the surface of a solid. If the contact angle is >90°, then the surface is classed as hydrophobic.



Hydrophilic material (affinity for water)



Hydrophobic material (water repelling)

## Benefits of hydrophobic treatment

A hydrophobised building material is permanently protected from the ingress of liquid water thanks to the socalled "Gore-Tex effect", while the water vapour diffusibility is not significantly reduced. This means that the pores and capillaries present in the building material remain permanently filled with air instead of water, and therefore the thermal insulation properties of the dry building material prevail.

Moisture-saturated building materials experience significant changes in their thermal insulation properties. The material-specific, free pore space is filled with water and takes on the excellent thermal conductivity of water. Fast and effective heat transport, which is desirable in a heating system, must be avoided at all costs in facade masonry. Damp building materials are very poor insulators! Considering energy saving and sustainability in particular, hydrophobic coatings are a simple but efficient means of improving the energy performance of a building.

The savings that can be achieved by applying a hydrophobic treatment can be up to 30% within a 90-day heating period of a European winter.

In addition, hydrophobic impregnations not only reduce

the susceptibility to soiling and biological growth, they also decrease the absorption of pollutants, as well as the risk of leaching and frost damage.



The Funcosil test kit from Remmers makes it easy to check the effectiveness of a hydrophobic treatment. The kit contains extensive equipment for non-destructive testing of water absorption of building materials that have been treated with a hydrophobic agent.



## What does hydrophobic treatment do?

If a thin glass tube is immersed in a water basin, the water will rise in the tube due to the capillary forces in action. If the tube is now made hydrophobic, the effect is reversed; water is no longer drawn up but is instead pushed out.

Since this result can be achieved with just a single-molecule, nanoscale layer of the Funcosil impregnation on the pore walls, vapour transport remains virtually unrestricted. Diffusibility is not prevented from taking place.



## Funcosil hydrophobic agents – liquid

Remmers solution	Range of use	Properties	Page
Funcosil SNL	Clear, hydrophobic, solvent-based impregnation	<ul><li>Applied as a liquid</li><li>Solvent-based</li></ul>	58
Funcosil SNL odour-neutral	Clear, hydrophobic, solvent-based impregnation	<ul><li>Applied as a liquid</li><li>Solvent-based (odour neutral)</li></ul>	59
Funcosil SN	Protection against driving rain especially for ad- jacent or present solvent-sensitive components	<ul> <li>Compatible with solvent-sensitive building materials such as polystyrene or bitumen</li> <li>Applied as a liquid</li> <li>Contains isopropyl alcohol</li> </ul>	60
Funcosil WS	Hydrophobic impregnation based on silane/ siloxane in aqueous emulsion form, especially in the case of adjacent or present solvent-sensitive components.	<ul> <li>Compatible with solvent-sensitive building materials such as polystyrene or bitumen</li> <li>Solvent-free</li> <li>Applied as a liquid</li> </ul>	61
Funcosil OFS	Oleo- and hydrophobic, water-based protective impregnation with easy-to-clean finish in floor and wall areas	<ul> <li>Repels oil, grease and dirt</li> <li>Solvent-free</li> <li>Applied as a liquid</li> </ul>	62
Funcosil AG	Oleo- and hydrophobic protective impregnation with easy-to-clean finish and anti-poster effect	<ul> <li>Repels oil, grease and dirt</li> <li>Applied as a liquid</li> <li>Solvent-based</li> </ul>	63
Funcosil AS	Driving rain protection on siloxane/acrylate base, colour intensifying and slightly strengthening	<ul> <li>Intensifies colour</li> <li>Mild strengthening effect</li> <li>Applied as a liquid</li> <li>Solvent-based</li> </ul>	63
Funcosil AW	Silicone-free driving rain protection Production sites where coating or painting is carried out	<ul><li>Silicone-free</li><li>Contains isoparaffin</li><li>Applied as a liquid</li></ul>	64

## Funcosil hydrophobic agents – cream

Remmers solution	Range of use	Properties	Page
Funcosil FC	Hydrophobic impregnation in cream form For subsequent cavity insulation and interior insulation	<ul> <li>Cream form: easy to apply with no loss</li> <li>Early resistance to rain, approx. 60 minutes after application</li> </ul>	65
Funcosil FC pro	Silane-based impregnation cream for sub- strate-specific hydrophobic treatment Supplementary measure for green renovations	<ul> <li>Slows down capillary transport</li> <li>Cream form: easy to apply with no loss</li> <li>Solvent-based</li> </ul>	66
Funcosil FC plus	Hydrophobic impregnation in cream form with colour intensifying effect Supplementary measure for green renovations	<ul> <li>Intensifies colour</li> <li>Cream form: easy to apply with no loss</li> <li>Solvent-based</li> <li>Early resistance to rain, approx. 60 minutes after application</li> </ul>	67





## Remmers Graffiti Protection

BASt-listed, preventive, semi-permanent anti-graffiti system

Remmers Graffiti Protection is a mixture of special silane/ siloxane and wax compounds. This combination of ingredients makes the substrate water-repellent and at the same time builds up a separating layer on the treated surface. The wax component is microporous so that the treated surface remains open to diffusion. Graffiti and paint smears can be easily removed from the treated substrates by using a hot water high-pressure cleaner (hygrothermal cleaning). Remmers Graffiti Protection belongs to the class of semi-permanent graffiti protection systems, as the wax component must be renewed after graffiti removal. This is done by way of simple reapplication. Remmers Graffiti Protection is listed in the category of surface-protecting anti-graffiti system C of the regulations of the association Gütegemeinschaft Anti Graffiti e. V., is RAL-certified and BASt-listed (list of tested anti-graffiti systems (AGS) for application on concrete surfaces on structures and components of federal traffic routes).



Befor

Afte

Remmers solution	Range of use	Properties	Page
Graffiti Protection	Semi-permanent graffiti protection impregnation	<ul> <li>Solvent-free</li> <li>Water-repellent</li> <li>Aids the removal of graffiti with hot water jets</li> </ul>	68
AGE	Paint stripper and graffiti remover	<ul> <li>Biodegradable paint stripper</li> <li>Highly effective</li> <li>Long open working time</li> </ul>	45

# Regeneration of roof cladding

## Regeneration coating with Color PA Roof

As an alternative to an expensive complete renovation, worn-out roof coverings can usually be renovated to an excellent standard with a regeneration coating. In our latitudes, these are usually made of clay or concrete roofing tiles. In addition to roof pitch, exposure and weather conditions, the material determines the appearance, quality, performance and ageing of the roof.

The rougher and more absorbent the surface exposed to the weather, the greater the absorption of water and pollutants and the associated weathering, damp and green discolouration. In the worst case, frost damage can result. Not only does the roof become unsightly, but ultimately it also offers only limited protection for the building.

A combination of gentle cleaning and durable surface protection in the form of a regeneration coating not only visually enhances the building, but also improves the structural and energetic standard. Remmers recommends the combined use of BFA, for removal of biological growth and prevention of regrowth, and Color PA Roof, the special coating for clay tiles, concrete roofing tiles and fibrated concrete sheets. Thanks to its excellent covering power, good adhesion and permanent reduction of water absorption, Color PA Roof is ideal for coating roof coverings.



Remmers solution	Range of use	Properties	Page
BFA*	Removes biological growth Preventive protection	<ul> <li>Combination products for surfaces with or susceptible to green growth</li> <li>Excellent long-term effect</li> <li>pH value approx. 7.5</li> </ul>	44
Primer Hydro HF	Aqueous deep primer with strengthening and hydrophobising properties	<ul><li>Strengthening</li><li>Evens out absorption</li><li>Hydrophobic</li></ul>	82
Color PA Roof	Special coating based on pure acrylate	<ul> <li>Highly water repellent and water vapour diffusible</li> <li>Fibre-binding</li> <li>Colourfast</li> </ul>	87

\* Use biocides safely. Always read the label and product information before use.



## Classically beautiful rendered facades

Preservation and reconstruction





## Rendered facades

## Weather protection and design options

In earlier times, render was a weather protection that could also be used to cover different materials and achieve visual uniformity; later, render was and still is chosen primarily because of its versatility and the wide range of possible applications.

In addition to their natural colour, renders can be given a colour finish in any shade, either with a final coat of paint or with pigments

with which the render is tinted. In addition, plaster can also be used for sculptural and ornamental decoration on facade surfaces. The ageing of a render facade is a complex process. Rain and condensation, the absorption and release of salts, and thermal stresses gradually attack the facade. This results in cracks, flaking paint coatings, crumbling of the render and even detachment of render and paint layers. Particularly at risk are darker areas, changes of material, plaster features such as cornice and fascia strips, as well as coatings with varying expansion behaviour and sealing properties.

A rendered facade can be maintained for a long time through good workmanship and constructive measures such as roof overhangs, water hammer cornices, stone plinths and, above all, regular maintenance.

Remmers has the systems to meet these needs.



# Re-rendering weathered substrates

Durable special renders designed with the building in mind

Buildings change over time. Dirt and pollutants build up on the facades. Moisture creeps in. When a renovation is then due, the facades are usually cleaned, but this is often not enough. Over the years, salt has built up that resists cleaning.

If the render is renewed in such cases, the undercoat and top coat should be formulated in such a way that they can withstand this potential for damage for as long as possible. Remmers restoration render systems are ideally suited to the task.

The permanently water-repelling and highly diffusion open renovation render allows the masonry to dry out while holding the salts back so as to prevent efflorescence at the surface. If a large amount of salt is present, the substrate can be levelled with a pore undercoat render, which allows the salts to crystallise without causing any damage.

Alternative, Remmers compress render can be used to eliminate damp while maintaining diffusibility and capillary action. It ensures permanent moisture regulation and, with over 60% pore volume, offers ample space for the storage of salts.

#### Restoration render systems have two key tasks:

How restoration render works: single-layer (restoration render) Shifts the evaporation level for moisture in the masonry from the render surface into the render layer. Restoration renders are water-repelling while also being highly diffusible.

#### How a restoration render system works: two layers (undercoat & restoration render)

Storage of salts emerging from the masonry without damage to the render. The undercoat render is not water-repelling, which allows salts to enter. The pore volume of more than 50% offers plenty of space to store salts without causing damage.





#### Moisture-removing/compress renders work differently:

#### How compress render works

Unlike a restoration render, a water-repellent formulation is dispensed with here in favour of moisture and salt removal. The render is given an even larger pore volume in order to store as much salt and moisture as possible or to let it through and release it quickly and efficiently into the air.





Remmers solution	Range of use	Properties	Page
SP Prep	WTA-compliant preparatory mortar	<ul><li>High adhesion to the substrate</li><li>High sulphate resistance</li><li>Evens out absorption</li></ul>	71
SP Levell	WTA-compliant, salt-accumulating pore under- coat render in restoration render systems for masonry with water and salt loads Condensate buffer and protective layer on inte- rior waterproofing	<ul> <li>High salt storage capacity</li> <li>Porosity&gt; 45 vol.%</li> <li>High sulphate resistance</li> <li>Single-layer application thickness 10 to 40 mm</li> <li>Machine-workable</li> </ul>	73
SP Top White	WTA-compliant restoration render for masonry with water and salt loads	<ul> <li>High salt storage capacity</li> <li>Porosity&gt; 50 vol.%</li> <li>High sulphate resistance</li> <li>Pore hydrophobic</li> <li>Single-layer application thickness up to 30 mm</li> <li>Machine-workable</li> <li>Promotes drying</li> </ul>	74
Compress Render	WTA-compliant salt-bonding render/sacrificial render Buffer layer under renders mixed according to historical formulations	<ul> <li>High salt storage capacity</li> <li>Open porosity approx. 60 vol.%</li> <li>Capillary-active</li> <li>Reversible</li> </ul>	76
SP Top Q2	Mineral fine plaster Surface and thin-coat plaster	<ul> <li>Suitable for manual and machine processing</li> <li>Can be felted</li> </ul>	76

# Stucco replacement and repair

## Individual artisanship to this day

Stucco elements give facades a special look. They embody exquisite and traditional artisanship. Building facades decorated with stucco characterise many historic cityscapes. However, stucco is not just used to refer to the opulent sculptural flourishes of the Baroque and Rococo periods, but also to simple cornices, window jambs, pilaster strips and the like. When producing stucco, a distinction is made between traditional moulding on site and prefabricated stucco profiles and ornaments made in the workshop. Remmers has solutions for both production methods that meet all the modern requirements for workability, speed and durability.



Remmers solution	Range of use	Properties	Page
Stucco GZ	Coarse mortar for creating and shaping stucco cores, profiles and cornices	<ul> <li>Fast setting</li> <li>Single layer thickness 10 – 40 mm</li> </ul>	78
Stucco FZ	Fine mortar for fine surface decoration of new and old stucco Creating smooth, sharp-edged profiles	<ul> <li>Fast setting</li> <li>Water-repellent</li> <li>Single layer thickness 1 – 5 mm</li> </ul>	78
Stucco GF	Stucco mortar for the factory production of stucco elements in a casting process	<ul> <li>Fast setting</li> <li>Grain size: &lt; 1.5 mm</li> <li>Compressive strength: approx 5.0 N/mm<sup>2</sup></li> </ul>	79



## Renovating old rendering

Quick and easy steps for achieving a perfect facade

Often it is not necessary to remove old render completely, even if it has a crack or two. In such cases, it has proven successful to recoat the facade with thin-layer plasters. To prevent existing cracks from reappearing, it must first be checked whether the causes of the cracks are still active. If this is the case, they must be remedied before rendering. To increase protection against the recurrence of cracks, a reinforcement in the form of a glass fibre fabric is incorporated into the restoration render system.

The combination of Remmers VM Fill as reinforcement render and Remmers VM Fill rapid as feltable finishing coat render has been used successfully for many years to repair cracked rendered facades. If the render is not cracked but simply has a damaged, weathered and unsightly surface, Remmers SP Top Q2 can also be used for renovation as an alternative to VM Fill rapid.



Remmers solution	Range of use	Properties	Page
VM Fill	Universal composite mortar Adhesive and reinforcement mortar Wall base render	<ul><li>Water-repellent</li><li>Good adhesion properties</li><li>Machine-workable</li></ul>	80
VM Fill rapid	Fast-acting composite mortar Adhesive mortar, filler and thin-coat render Wall base render	<ul><li>Quick setting</li><li>Water-repellent</li><li>Can be felted</li></ul>	80



## Rendered facades in the historic style

From lime mortar to natural cement

The use of traditional materials and processing techniques is one of the basic premises in the restoration of listed buildings. As long as no excessive salt and moisture effects are expected, the use of traditional materials, up to and including the property-specific reproduction of the historic formulations, is the primary restoration goal.

With the Remmers Historic Mortar system, old mortar compositions can be recovered. This applies to virtually all types of historic formulations: from dry slaked lime mortar to natural cement mortar, and from classical stone renders to mid-20th century crushed brick concrete. We create formulations on the basis of individual case-by-case analyses and our many years of experience from 75 years of active involvement in the preservation of historical monuments.

In this way, we make our knowledge available to all those who want to counteract the loss of historic plaster textures and formulations and the associated loss of historic mortars. You can find more information in our brochure "Building conservation and monument preservation" or at www.remmers.com.



## Coating systems on render

## Perfect protection every time, whether classical or modern

In addition to providing a colour finish, facade paints also have a protective function for the building. This essentially consists of keeping moisture and thus pollutants away from the building and at the same time maintaining its diffusibility to a sufficient degree. These tasks can be achieved with two different paint types. Classic silicate and mineral paints such as Remmers Color SH impart a sense of high-quality design and resilience. This is down to the use of water glass as a mineral binder, as well as the wide array of impressive architectural monuments on which these paints have been used, in particular those of the early modern period. The outstanding properties of silicone resin paints such as Remmers Color LA and Color LA Fill, the filling version, are based on their microporous structure.

These can be seen in their characteristic values. They achieve a diffusion resistance coefficient of around 150. This corresponds to an  $s_d$  value of well below 0.10 m and comparable to the commonly used single-component silicate paints. At the same time, the capillary water

absorption of such paints is extremely low. This results in a "Gore-Tex" finish for the rendered facade. What makes for optimal outdoor clothing is also perfect for facades. Silicone resin-reinforced acrylic dispersion coatings such as Color SF [basic] combine the advantages of high-quality dispersions made of pure acrylate with those of silicone resin emulsions. More specifically, the typical product characteristic values for pure acrylates and the resultant properties of film-forming, excellent adhesion, colour brilliance, UV resistance and wear resistance are combined with those of silicone resin emulsions – namely their water-repelling capability, optimum water vapour permeability and low tendency to accumulate dirt.

By combining these different binders, excellent property profiles can be achieved. For pure renovation coatings, on the other hand, binder-optimised and filler-enriched acylate paint coatings such as Color Sil [basic] are suitable. Color Sil [basic] adheres very well, dries with little tension and boasts high resistance and durability.




Remmers solution	Range of use	Properties	Page
Primer Hydro HF	Aqueous deep primer with strengthening and hydrophobising properties	<ul> <li>Strengthening</li> <li>Evens out absorption</li> <li>Hydrophobic</li> <li>Aqueous</li> </ul>	82
Primer Hydro F	Aqueous primer with strengthening effect	<ul><li>Strengthens the surface</li><li>Evens out absorption</li><li>Aqueous</li></ul>	83
Primer Hydro S HF	Mineral primer with hydrophobic and strengthening effect	<ul> <li>Evens out absorption</li> <li>Strengthening</li> <li>Silicifies the substrate</li> <li>Aqueous</li> </ul>	83
Color SH	Mineral paint with fine-grained structure	<ul> <li>Fine-grained surface texture</li> <li>Water vapour diffusion open</li> <li>Water-repellent</li> </ul>	84
Color LA	"True" silicone resin paint with film preservative to protect surfaces at risk of algae growth and fungal attack	<ul> <li>Water-repellent and highly water vapour diffusible</li> <li>No interference with the carbonation reaction</li> <li>Low tension, matt, mineral character</li> <li>Does not attract dirt</li> </ul>	85
Color LA Fill	Silicone resin filler paint Filling, "true" silicone resin paint	<ul> <li>Fibre-reinforced</li> <li>Water-repellent and highly water vapour diffusible</li> <li>No interference with the carbonation reaction</li> <li>Low tension, matt, mineral character</li> <li>Fine-sandy, rough texture</li> </ul>	85
Color SF [basic]	Silicone-resin-reinforced facade paint with film preserver to protect surfaces at risk of algae growth and fungal attack	<ul> <li>Highly water-repellent and highly water vapour diffusible</li> <li>Low tension</li> <li>Matt, mineral character</li> </ul>	86
Color Sil [basic]	Facade paint with mineral character	<ul> <li>Water-repellent and water vapour diffusible</li> <li>Low tension</li> <li>Matt, mineral character</li> </ul>	86



# System products and accessories

Tried-and-tested solutions for brick and render facades



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Coating systems	

#### Clean WR

Acidic cleaner

Quantity per pallet

Packaging unit

Container code

Art. no.

0675

Range of use	<ul><li>Mineral substrates</li><li>Tiles and slabs</li></ul>
Property profile	<ul><li>Surfactant-free</li><li>Ready to use</li><li>pH value approx. 1.0</li></ul>
Application rate	<ul> <li>Approx. 0.3 - 0.5 l/m<sup>2</sup> depending on condition</li> </ul>

84

5 kg

05

Plastic canister



		* * * *
≤ +30 °C ≥ +5 °C		$\begin{array}{c} 300\text{-}500 \text{ ml} \\ \text{Total} \\ \downarrow  \downarrow \\ 1\text{m}^2 \end{array}$
	36 Month	

System products	Art. no.
Funcosil SN	(0604)
Funcosil FC	(0711)
Funcosil SNL	(0602)

# Clean AC [basic]

Acidic cleaner

Quantity per pallet	240	90	44	H <sub>2</sub> 0
Application rate	<ul> <li>Approx. 0.05 - 0.1 k when used 1:10 in</li> </ul>	g/m² depending on condit water	ion	- And
Property profile	<ul> <li>High-yielding pow</li> <li>Readily soluble in</li> <li>pH value 0.8 (10%)</li> </ul>	der concentrate warm water solution)		Temmersba
Range of use	<ul> <li>Fair-faced clinker a</li> <li>Removing mortar i</li> <li>Removing lime and</li> </ul>	and brick masonry residue, lime and cement s d scale	treaks	

24

30

30 kg

Plastic canister

Packaging unit	1 kg	5 kg	10 kg
	Plastic bucket	Plastic bucket	Plastic bucket
Container code	01	05	10
Art. no.			
0672	-	-	-



		**
4-20 1 : * * H <sub>2</sub> O	≤ +30 °C ≥ +5 °C	
depending on application		36 Month

System products	Art. no.
Funcosil FC	(0711)
Funcosil WS	(0614)
Funcosil SNL	(0602)

#### **Clean SL**

Surfactant solution for removing dirt, encrusted dirt, dust, oil and grease deposits

Range of use	<ul> <li>Removing dirt, encrusted dirt, dust, oil and grease deposits</li> <li>Mineral surfaces</li> <li>Floors and walls</li> </ul>	
Property profile	<ul> <li>High washing activity</li> <li>High-yielding concentrate</li> <li>Low-foaming</li> <li>Can be applied manually or by machine</li> <li>Biodegradable</li> </ul>	
Application rate	Approx. 0.01 - 0.05 l/m <sup>2</sup> depending on condition	

Quantity per pallet	84	I I
Packaging unit	5 kg	
	Plastic canister	ſ
Container code	05	
Art. no.		
0671	-	_



System products	Art. no.
Funcosil SN	(0604)
Funcosil FC	(0711)
Funcosil SNL	(0602)

#### **Clean FP**

Cleaning paste for removing urban dirt

Range of use	<ul> <li>Mineral building materials, except for sand-lime brick and glazed surfaces</li> <li>Removes heavy urban dirt (soot, dust, industrial dirt, etc.)</li> </ul>	
Property profile	<ul><li>High cleaning power</li><li>Paste form</li><li>Stable on vertical surfaces</li><li>Efficient application</li></ul>	Clean FP
Application rate	<ul> <li>Min. 0.1 kg/m<sup>2</sup> depending on condition</li> </ul>	

Quantity per pallet	288	60	16
Packaging unit	12 x 1 kg	5 kg	30 kg
	Plastic bucket	Plastic bucket	Plastic bucket
Container code	01	05	30
Art. no.			
0666	•	•	•



	Holling	$\frown \bullet$
≤ +30 °C ≥ +5 °C	$\checkmark$	
$\begin{array}{c} 0,1-0,3 \text{ kg} \\ \text{Total} \\ \downarrow  \downarrow  \downarrow \\ 1 \text{ m}^2 \end{array}$		36 Month

System products	Art. no.
Funcosil SN	(0604)
Funcosil FC	(0711)
Funcosil SNL	(0602)

## LEAD box

Equipment for non-destructive testing of lead contamination of facades

Range of use	For quantitative investigation of lead contamination in building surfaces
Property profile	<ul> <li>Contents of the LEAD BOX:</li> <li>5 x 50 ml PE test tubes (sealable) including special fluid for sampling</li> <li>1 x 50 ml PE reference sample (no. 6) for use as control or comparison in the atomic adsorption spectroscopy method. Sample is sealed. Do not</li> </ul>
	use. • 1 pair disposable gloves
	Order form for analysis/documentation and sample description



30x

Quantity per pallet	
Packaging unit	1 pcs
	Carton
Container code	01
Art. no.	
4969	•

## Clean Galena neutral / max / individual

Cleaning agent for emission-free cleaning of mineral surfaces

Range of use	<ul> <li>Mineral surfaces, especially limestone</li> <li>Reduction of heavy metals, especially lead</li> <li>Reduction of encrusted dirt</li> <li>Removal of iron and copper contamination</li> <li>For professional users</li> <li>Clean Galena max: Adjusting the intensity and drying properties of Clean Galena neutral</li> </ul>	
Property profile	<ul> <li>Clean Galena neutral: low content of active cleaning substances</li> <li>Clean Galena max: maximum content of active cleaning substances</li> <li>Substrate-friendly cleaning</li> <li>Emission-free</li> <li>Dries to form an easily removable skin</li> <li>Traps surface contamination</li> <li>Complexing of heavy metals</li> </ul>	
Application rate	<ul> <li>Approx. 2 - 3 kg/m<sup>2</sup> on a level surface</li> <li>Standard wet film thickness 2.5 mm</li> </ul>	

Quantity per pallet		288	12
Packaging unit		1 kg	25 kg
		Plastic bucket	Plastic bucket
Container code		01	25
Art. no.			
0662	Clean Galena neutral	•	•
0661	Clean Galena max	•	•
Special composition			
0664	Clean Galena individual		-



System products	Art. no.
LEAD Box	(4969)

By consultation only, minimum 2 weeks lead time, minimum order quantity approx. 1000 kg

## Cleaning/substrate preparation

#### BFA

Bactericidal, fungicidal and algicidal combination product for cleaning and priming building materials with or susceptible to green growth

Range of use	<ul> <li>Preventive protection against green discolouration</li> <li>Removes biological growth from mineral substrates, composite thermal insulation systems and paint coatings</li> </ul>
Property profile	<ul><li>Excellent long-term effect</li><li>No hydrophobic action</li><li>Free of heavy metals</li></ul>
Application rate	<ul> <li>Min. 0.2 l/m<sup>2</sup> depending on condition</li> </ul>



H<sub>2</sub>0

36 Month

ŧ

200-500 ml ↓ ↓ ↓ 1m<sup>2</sup>

Quantity per pallet	84	24
Packaging unit	5 l	30 l
	Plastic canister	Plastic canister
Container code	05	30
Art. no.		
0673	•	•

Use biocides safely. Always read the label and product information before use.

#### System products

Funcosil hydrophobic treatments

Facade paints

## AGE

Paint stripper and graffiti remover

Quantity per pallet	432	66	12
Packaging unit	12 x 0.75 l	5 l	25 l
	Tin bucket	Tin bucket	Tin bucket
Container code	01	05	25
Art. no.			
1368	-	-	





System products	Art. no.
Funcosil SN	(0604)
Funcosil FC	(0711)
Graffiti Protection	(0685)
Funcosil SNL	(0602)

#### **Mechanical cleaning**

## rotec spacer

Range of use	<ul> <li>Accessories for pressure blasting equipment from Schmidt Sand- strahltechnik GmbH (www.schmidt-sandstrahltechnik.de) VARIO PRIMUS KE 25 or 45 litre and other jet blasting equipment</li> </ul>
Property profile	<ul> <li>Material: EPDM</li> <li>Inner diameter: approx. 17 mm</li> <li>Outer diameter: approx. 27 mm</li> <li>Length: approx. 27 mm</li> <li>Temperature range: approx40 to +100 °C</li> <li>Hardness (Shore A) DIN ISO 7619-1: approx. 50 ° +/- 5 Shore A</li> <li>Tear strength DIN 53504: approx. 8 MPa</li> <li>Tear strength DIN 53504: approx. 500%</li> </ul>

Quantity per pallet	5555		Le .	
Packaging unit	5 pcs	System products	Art. no.	
	Pack	rotec turbine	(5243)	
Container code	01			
Art. no.				
5265				

## Mechanical cleaning

#### rotec turbine

Patented swirl unit

Range of use	<ul><li>rotec soft jet method</li><li>Can be used for dry, damp and wet cleaning</li></ul>	$\sim$
Property profile	<ul> <li>Tangential abrasive effect - jetting particles glide on the surface</li> <li>Cleaning intensity can be adjusted to the degree of dirt accumulation</li> <li>Gentle on the building substance</li> <li>Patented swirl unit with special lamella technology in low-wear hard ceramic</li> </ul>	Ø

Quantity per pallet
---------------------

Quantity per pallet	i și Vești		
Packaging unit	1 pcs		
	Can	System products	Art. no.
Container code	02	rotec soft jet	(5235)
Art. no.		system 25 l	
5243	-		

## rotec glass powder

rotec soft jet granules, no risk of silicosis

Range o	fuse	■ rotec soft je	method			
Property	/ profile	<ul> <li>Synthetic soft jet granules</li> <li>Gentle on the building substance</li> <li>Optimum performance with minimum removal of surface material</li> <li>No risk of silicosis due to blasting material</li> <li>Can be used as per BGR 500 Section 2.24</li> <li>Environmentally friendly blasting material as per ISO 11126-4 N/CS/G</li> </ul>			1	
Applicat	ion rate	■ 40 - 100 kg/	n			
Quantity	y per pallet		<b>42</b> 25 kg		■ <b>○</b> ■ <b>○</b> ■ <b>○</b> = +40 °C	
	.5 0		Paper bag			
Containe	er code		25			
Art. no.					System products	Art. no.
5280	0.04 - 0.09 mm	A0	-		rotec turbine	(5243)
5278	0.09 - 0.25 mm	A2	•		rotec spacer	(5265)

#### Joint and masonry repair

#### Spiral Anchor Mortar M20/M30

Machine-workable joint mortar with high sulphate resistance for embedding spiral anchors

Range of use	Embedding spiral anchors for reinforcing cracked masonry	
Property profile	<ul> <li>Single-component</li> <li>Machine-workable</li> <li>Good flank adhesion</li> <li>High sulphate resistance and low effective alkali content (SR/NA)</li> <li>Polymer-modified</li> </ul>	
Application rate	■ Approx. 1.7 kg/l void	

Quantity	per pallet			42	
Packagin	g unit			25 kg	NS I
				PE bag	
Containe	er code			25	8
Art. no.					and the game
1028	M20	1 mm	grey	-	
1030	M30	1 mm	grey	-	12



System products	Art. no.
Spiral anchor	(4331)

#### Spiral anchor

Rolled, twisted spiral anchors with two threads made of austenitic stainless steel for masonry renovation

Quantity per pallet	1500	
	<ul> <li>Rustproof</li> </ul>	
	<ul> <li>Low cross-sectional area</li> </ul>	
	<ul> <li>Excellent composite characteristics</li> </ul>	1
	<ul> <li>Elastic behaviour like a strong spring</li> </ul>	second I
	<ul> <li>High tensile load-bearing strength</li> </ul>	and a second sec
Property profile	<ul> <li>Even introduction of force</li> </ul>	
	<ul> <li>Fixing in brick and natural stone masonry</li> </ul>	and the
	<ul> <li>Crack repair</li> </ul>	
Range of use	<ul> <li>Subsequent masonry reinforcement and anchoring</li> </ul>	•

			in 16. Taird -	
Packaging unit		1 pcs		
		Roll	System products	Art. no.
Container code		01	Spiral anchor mortar M30	(1030)
Art. no.			Spiral anchor	(1028)
4331	Spiral anchor 6/1000	•	mortar M20	
4334	Spiral anchor 8/1000	•		
4325	Spiral anchor 6/10000	•		
4326	Spiral anchor 8/10000	•		

#### Stone substitution

#### RM

Mineral stone substitution mortar

Range of use	<ul> <li>Restoration, substitution and reprofiling of mineral substrates such as natural stone, brick, concrete and artificial stone</li> <li>Reproduction of ornamental building elements by tamping</li> </ul>	
Property profile	<ul> <li>Low content of free alkalis</li> <li>Good flank adhesion</li> <li>Low inherent stress</li> <li>UV-resistant pigments</li> <li>Can be made hydrophobic</li> </ul>	
Application rate	Approx. 1.6 kg/l void	

Quantity pallet	per			64	32	42
Packagin	g unit			5 kg	15 kg	25 kg
				Plastic bucket	Plastic bucket	PE bag
Container code 05 15 25					25	
Art. no.						
Standard	l colours, me	an grain size, not hydro	ophobic			
0131	normal	≤ 0.5 mm	concrete grey 29-6	•	•	
0132	normal	≤ 0.5 mm	olive grey 25-5	•	•	
0133	normal	≤ 0.5 mm	yellow-green 15-3	•	•	
0134	normal	≤ 0.5 mm	olive ochre 14-3	•	•	
0135	normal	≤ 0.5 mm	earth brown 12-3	•	•	
0136	normal	≤ 0.5 mm	golden brown 04-5	•	•	
0137	normal	≤ 0.5 mm	sepia brown 09-2	•	•	
0138	normal	≤ 0.5 mm	English red 06-0	•	•	
0139	normal	≤ 0.5 mm	clay red 05-1	•	•	
0140	normal	≤ 0.5 mm	clay red 05-0	•	•	
0142	normal	≤ 0.5 mm	concrete grey 29-0	•	•	
Special c	olours, can b	e made hydrophobic				
0742	normal	fine ≤ 0.2 mm			•	•
0746	normal	medium ≤ 0.5 mm			•	•
0749	normal	coarse ≤ 2.0 mm			•	•
0786	soft	fine $\leq 0.2 \text{ mm}$			•	•
0787	soft	medium ≤ 0.5 mm			•	•

Min. order quantity special colours: 30 kg – Min. order quantity 25 kg PE bags: 600 kg

Can be configured based on provided sample (stone, existing mortar) or colour shade no. (MF no., colour card, NCS etc.).

Different grain sizes of the same article can lead to slight colour variations.

Samples (1 kg) of the product can be ordered under article no. 9990101 from muster@remmers.de, stating the colour and/or specification.





System products	Art. no.
Color LA Fill Historic	(6471)
ZM HF [basic]	(0220)
Antihygro	(0616)
Color LA Historic	(6476)
RM GM M10	(0638)

#### Stone substitution

#### RM pro

Mineral stone substitution mortar (can be feathered out to zero), applied as slurry

Range of use	<ul> <li>Restoration, substitution and reprofiling of mineral substrates such as natural stone, brick, concrete and artificial stone</li> <li>Reproduction of ornamental building elements by tamping</li> </ul>	
Property profile	<ul> <li>Low content of free alkalis</li> <li>Can be feathered out to zero</li> <li>Can be applied as a slurry</li> <li>Good flank adhesion</li> <li>Low inherent stress</li> <li>UV-resistant pigments</li> <li>Can be made hydrophobic</li> </ul>	
Application rate	<ul> <li>Approx. 1.6 kg/l void</li> </ul>	

Quantity per pallet			32	30
Packaging unit		15 kg	25 kg	
			Plastic bucket	PE bag
Container o	code		15	25
Art. no.				
Special colours, can be made hydrophobic				
0597	fine ≤ 0.2 mm	normal	•	•
0598	medium ≤ 0.5 mm	normal	•	-
0599	coarse ≤ 2.0 mm	normal	•	•
0591	fine ≤ 0.2 mm	soft	•	•
0592	medium ≤ 0.5 mm	soft	•	•
0593	coarse ≤ 2.0 mm	soft		-

Special configuration of composition and characteristics

individual

0596

Can be configured based on provided sample (stone, existing mortar) or colour shade no. (MF no., colour card, NCS etc.).

individual

Different grain sizes of the same article can lead to slight colour variations.

Samples (1 kg) of the product can be ordered under article no. 9990101 from muster@remmers.de, stating the colour and/or specification.

Min. order quantity 25 kg PE bags: 600 kg



System products	Art. no.
Color LA Fill Historic	(6471)
ZM HF [basic]	(0220)
Antihygro	(0616)
Color LA Historic	(6476)
RM GM M10	(0638)

#### Joint sealants

## MS 150

Elastic sealant based on MS hybrid polymers

Range of use	<ul> <li>Joints in concrete and precast construction</li> <li>Facade joints, masonry joints</li> <li>Facade cladding, steel and assembly construction</li> <li>Joints connecting door and window frames to the building structure</li> <li>Universal, elastic polymer adhesive</li> </ul>
Property profile	<ul> <li>High adhesion to many substrates</li> <li>Quick, blister-free curing</li> <li>Can be painted and coated over</li> <li>Coating compatible acc. to DIN 52452</li> <li>Very low emissions (GEV-EMICODE EC 1<sup>plus</sup>)</li> <li>Isocyanate-free</li> </ul>
Application rate	<ul> <li>Approx. 100 ml/running metre for a 1 cm<sup>2</sup> joint cross-section</li> </ul>

Quantity per pallet	1056	880
Packaging unit	12 x 290 ml	20 x 600 ml
	Cartridge	Aluminium bag
Container code	12	59
Art. no.		



System products	Art. no.
Sealant Gun	(4706)
Smoothing Agent	(7725)
Primer PUR	(7530)
Compressed Air Sealant Gun	(4707)

## Acryl pro

Art. no.

transparent

7801

Plastoelastic sealing and adhesive compound

Range of use	<ul> <li>Roofing trade</li> <li>Tinsmithing and installation</li> <li>General bonding work in the construction and timber trade</li> </ul>	
Property profile	<ul> <li>High adhesive power even on damp substrates</li> <li>Compatible with bitumen</li> <li>Universal adhesion</li> <li>Can be overcoated</li> <li>Solvent-based</li> </ul>	
Application rate	• Approx. 100 ml/m for a 1 cm <sup>2</sup> joint cross-section	
Quantity per pallet	1056	
Packaging unit	12 x 310 ml	
	Cartridge	
Container code	12	36 Month

Ö	<u></u>	cm² x m
	36 Month	
System p	roducts	Art. no.

Sealant Gun (4701)

#### FM NB [basic]

Cement-lime jointing mortar for new buildings

Range of use	<ul> <li>Initial pointing</li> <li>Brick and natural stone masonry</li> <li>Mortar joints of 5 - 30 mm</li> </ul>
Property profile	<ul><li>Good flank adhesion</li><li>Special colour possible (UV-resistant pigments)</li></ul>
Application rate	<ul> <li>Approx. 1.6 kg/l joint space</li> </ul>

Quantity p	er pallet			42
Packaging (	unit			25 kg
				PE bag
Container o	code			25
Art. no.				
FM NB [basic], not hydrophobic				
1027	M10	≤ 1.0 mm	antique white	-
1033	M10	≤ 1.0 mm	grey	-
1035	M10	≤ 1.0 mm	beige	•
1036	M10	≤ 1.0 mm	special colours	•





System products	Art. no.
ZM HF [basic]	(0220)
Clean AC [basic]	(0672)

Can be configured based on provided sample (stone, existing mortar), colour shade no., colour card, NCS etc. Different grain sizes of the same article can lead to slight colour variations.

Samples (3 kg) of the product can be ordered under article no. 9990003 from muster@remmers.de, stating the colour and/or specifications.

#### FM SAN

Cement-lime jointing mortar for restorations

Range of use	<ul> <li>Initial pointing and joint repair</li> <li>Brick and natural stone masonry</li> <li>Mortar joints of 5 - 30 mm</li> </ul>
Property profile	<ul> <li>Good flank adhesion</li> <li>Can be made hydrophobic</li> <li>Special colour possible (UV-resistant pigments)</li> <li>Can be made doubly hydrophobic</li> </ul>
Application rate	<ul> <li>Approx. 1.6 kg/l joint space</li> </ul>



Quantity pe	er pallet			42
Packaging u	nit			25 kg
				PE bag
Container c	ode			25
Art. no.				
FM SAN, not	hydrophobic			
1065	M5	≤ 1.0 mm	antique white	•
1066	M5	≤ 1.0 mm	grey	•
1067	M5	≤ 1.0 mm	anthracite	•
1069	M5	≤ 1.0 mm	beige	•
1061	M5	≤ 1.0 mm	special colours*	•



System products	Art. no.
ZM HF [basic]	(0220)
Clean AC [basic]	(0672)
Remmers cleaning products	
Europsil hydrophobic	

Can be configured based on provided sample (stone, existing mortar), colour shade no., colour card, NCS etc. Different grain sizes of the same article can lead to slight colour variations.

Samples (3 kg) of the product can be ordered under article no. 9990003 from muster@remmers.de, stating the colour and/or specifications.

\*Can be made pore hydrophobic

Funcosil hydrophobio treatments

#### FM TK

Trass-lime cement jointing mortar

Range of use	<ul> <li>Initial pointing and joint repair</li> <li>Brick and natural stone masonry</li> <li>Mortar joints of 8 - 30 mm</li> </ul>
Property profile	<ul> <li>High sulphate resistance and low effective alkali content (SR/NA)</li> <li>Very low efflorescence</li> <li>Good flank adhesion</li> <li>Special colour possible (UV-resistant pigments)</li> <li>Can be made doubly hydrophobic</li> </ul>
Application rate	<ul> <li>Approx. 1.7 kg/l joint space</li> </ul>

Quantity pe	er pallet			42
Packaging ι	ınit			25 kg
				PE bag
Container c	ode			25
Art. no.				
FM TK, not	hydrophobic			
1026	M5	≤ 1.0 mm	lime grey (inherent colour)	•
1022	M5	≤ 1.0 mm	Special colours (dark colours only)	•
1023	M5	≤ 2.0 mm	Special colours (dark colours only)	•



System products	Art. no.
Clean AC [basic]	(0672)
ZM HF [basic]	(0220)

Can be configured based on provided sample (stone, existing mortar) or colour shade no. (MF no., colour card, NCS etc.).

(Light colours only to limited extent and only in consultation with the laboratory.)

Different grain sizes of the same article can lead to slight colour variations.

Samples (3 kg) of the product can be ordered under article no. 9990003 from muster@remmers.de, stating the colour and/or specifications.

#### **FM TK PH**

Trass-lime cement jointing mortar, pore hydrophobic

Range of use	<ul> <li>Initial pointing and joint repair</li> <li>Brick and natural stone masonry</li> <li>Mortar joints of 8 - 30 mm</li> </ul>
Property profile	<ul> <li>High sulphate resistance and low effective alkali content (SR/NA)</li> <li>Very low efflorescence</li> <li>Good flank adhesion</li> <li>Pore hydrophobic</li> </ul>
Application rate	<ul> <li>Approx. 1.7 kg/l joint space</li> </ul>

Quantity pe	er pallet			42
Packaging u	nit			25 kg
				PE bag
Container code			25	
Art. no.				
FM TK PH, pore hydrophobic				
1018	M5	≤ 1.0 mm	Special colours (dark colours only)	-

Can be configured based on provided sample (stone, existing mortar), colour shade no., colour card, NCS etc. (Light colours only to limited extent and only in consultation with the laboratory.)

Different grain sizes of the same article can lead to slight colour variations.

Samples (3 kg) of the product can be ordered under article no. 9990003 from muster@remmers.de, stating the colour and/or specifications.





System products	Art. no.
Clean AC [basic]	(0672)
ZM HF [basic]	(0220)

Funcosil hydrophobic treatments

#### **Brick pointing**

## FM FS

Slurry for brick pointing

~

Range of use	<ul> <li>Repair of joints in brick/clinker facades in the facade slurry system</li> </ul>	
Property profile	<ul> <li>Water vapour diffusible</li> <li>High sulphate resistance and low effective alkali content (SR/NA)</li> <li>Especially good flank adhesion</li> <li>Suitable for narrow joints</li> <li>Good resistance to weathering</li> <li>Special colour possible (UV-resistant pigments)</li> </ul>	
Application rate	<ul> <li>The brick jointing method includes the system components:</li> <li>Pre-impregnation: ~ 0.6 l/m<sup>2</sup> (Funcosil SNL)</li> <li>Pointing: ~ 3.0 kg/m<sup>2</sup></li> <li>Post-impregnation: ~ 0.4 l/m<sup>2</sup></li> </ul>	appro

	•	25 kg
≤ +30 °C ≥ +5 °C	3 Min.	() ) ) )
depending on application ↓ ↓ ↓ 1m <sup>2</sup>		12 Month

Quantity pe	er pattet	42	-		Ĺ
Packaging ι	unit	25 kg	depending on application		12 Month
		PE bag	1m²		
Container c	code	25			
Art. no.			System	products	Art. no.
0435	grey (inherent colour)	•	Funcosi	l SN	(0604)
0/27			Clean A	C [basic]	(0672)
0437	special colours	-			()
Can be con	figured based on provided sam	ple (stone, existing mortar), colour shade no., colour card, NCS etc.	Funcosi	l SNL	(0602)

Different grain sizes of the same article can lead to slight colour variations. Samples (3 kg) of the product can be ordered under article no. 9990003 from muster@remmers.de, stating the

colour and/or specifications.

System products	Art. no.
Funcosil SN	(0604)
Clean AC [basic]	(0672)
Funcosil SNL	(0602)
Clean FP	(0666)
Funcosil FC	(0711)

# Brick pointing

# Washing kit

#### Tub on castors

Range of use	<ul> <li>jointing on brickwork facades</li> <li>Pointing tiles</li> <li>Cleaning pointed surfaces</li> <li>Contents: <ul> <li>1 x 24 l tub on castors</li> <li>1 x double washing roller</li> <li>1 x metal grid</li> <li>1 x square cut hydro washboard</li> </ul> </li> </ul>	
Property profile	<ul><li>Stable design</li><li>High-quality and robust</li></ul>	

Availability Size / quantity	Availability Size / quantity 1 pcs	
Container type	Carton	System products
Container code	01	FM FS
<b>Art. no.</b> 4978		FL grout flex

Art. no.

(0435) (2891)

## Plasterer's float, black

Range of use Property profile	<ul> <li>jointing on brickwork facades</li> <li>Pointing tiles</li> <li>With tear-resistant 10 mm EPDM cover</li> <li>Dimensions: 280 x 140 mm</li> <li>Soft grip</li> </ul>		
Quantity per pallet	320	-	
Packaging unit	1 pcs		
		を注め 合いでも	
Container code	01	107.4455	
Art. no.		System products An	rt. no.
4979		FM FS (	(0435)
		FL grout flex	(2891)

#### **Brick pointing**

# Sponge float red

Range of use	<ul> <li>jointing on brickwork facades</li> <li>Initial cleaning of pointed surfaces</li> <li>Pointing tiles</li> <li>Rubbing plaster</li> </ul>		
Property profile	<ul> <li>Dimensions: 280 x 140 mm</li> <li>With tear-resistant 10 mm EPDM cover</li> <li>Soft grip</li> </ul>	-	-
Quantity per pallet		回認回	
Packaging unit	1 pcs		
Container code	01	System products	Art. no.
Art. no.		FL grout flex	(2891)
4935	•	FM FS	(0435)

Renovation renders

# Sponge float, yellow

Square cut hydro washboard

Range of use	<ul> <li>jointing on brickwork facades</li> <li>Pointing tiles</li> <li>Cleaning pointed surfaces</li> <li>Felting reinforcement/thin coat plasters and fillers</li> </ul>	
Property profile	<ul> <li>30 mm square cut hydro coating</li> <li>Dimensions: approx. 280 x 140 mm</li> <li>Soft grip</li> <li>Sponge thickness: approx. 30 mm</li> </ul>	
Quantity per pallet		
Quantity per pallet Packaging unit	1 pcs	
<b>Quantity per pallet</b> Packaging unit	1 pcs	System products Art. no.
Quantity per pallet         Packaging unit         Container code	1 pcs 01	System products     Art. no.       FL grout flex     (2891)
Quantity per pallet         Packaging unit         Container code         Art. no.	1 pcs 01	System products     Art. no.       FL grout flex     (2891)       FM FS     (0435)

#### Funcosil SNL

Clear, hydrophobic, solvent-based impregnation on a silane/siloxane base

Range of use	<ul> <li>Driving rain protection for facades</li> <li>Reduces susceptibility to dirt and green discolouration</li> <li>After-treatment/touch-up of hydrophobic surfaces</li> <li>Subsequent impregnation of mineral paint coatings</li> <li>Porous, mineral building materials such as brick, sand-lime brick, aerated concrete and mineral renders</li> </ul>		
Property profile	<ul> <li>Improves resistance to freeze/thaw stresses</li> <li>Highly water repellent</li> <li>Water vapour diffusion open</li> <li>Excellent penetration capacity</li> <li>UV-resistant</li> <li>Alkali resistant</li> <li>Excellent long-term effect</li> <li>Reduces energy loss</li> </ul>		500-1500 ml
Application rate	<ul> <li>Brickwork, fine-pored: min. 0.8 l/m<sup>2</sup></li> <li>Brickwork, coarse-pored: min. 1.0 l/m<sup>2</sup></li> <li>Sand-lime brick, smooth: min. 0.5 l/m<sup>2</sup></li> <li>Sand-lime brick, split, bossed: min. 0.7 l/m<sup>2</sup></li> <li>Render: min. 0.5 l/m<sup>2</sup></li> <li>Aerated concrete: min. 1.0 l/m<sup>2</sup></li> <li>Fibre cement: min. 0.3 l/m<sup>2</sup></li> </ul>		Total ↓ ↓ ↓ 1m <sup>2</sup>
	<ul> <li>Concrete modular block: min. 1.2 l/m<sup>2</sup></li> <li>Natural stone fine-nored: min. 0.6 l/m<sup>2</sup></li> </ul>	System products	Art. no.
	<ul> <li>Natural stone, coarse-pored: min. 1.5 l/m<sup>2</sup></li> </ul>	BFA*	(0673)

Quantity per pallet	360	84	50	24	2	1
Packaging unit	1l	5 l	10 l	30 l	200 l*	1000 l*
	Tin canister	Tin canister	Tin canister	Tin canister	Drum	Container
Container code	01	05	10	30	69	61
Art. no.						
0602	-	-	-	-	•	•
*upon request						

\*Use biocides safely. Always read the label and product information before use.

FM FS

(0435)

## Funcosil SNL odour-neutral

Clear, hydrophobic impregnation on a silane/siloxane base with odour-neutral solvent

Range of use	<ul> <li>Driving rain protection for facades</li> <li>Reduces susceptibility to dirt and green discolouration</li> <li>After-treatment/touch-up of hydrophobic surfaces</li> <li>Subsequent impregnation of mineral paint coatings</li> <li>Porous, mineral building materials such as brick, sand-lime brick, aerated concrete and mineral renders</li> </ul>		
Property profile	<ul> <li>Improves resistance to freeze/thaw stresses</li> <li>Highly water repellent</li> <li>Water vapour diffusion open</li> <li>Excellent penetration capacity</li> <li>UV-resistant</li> <li>Alkali resistant</li> <li>Excellent long-term effect</li> <li>Odour-neutral</li> <li>Reduces energy loss</li> </ul>		500-1500 ml Total
Application rate	<ul> <li>Brickwork, fine-pored: min. 0.8 l/m<sup>2</sup></li> <li>Brickwork, coarse-pored: min. 1.0 l/m<sup>2</sup></li> <li>Sand-lime brick, smooth: min. 0.5 l/m<sup>2</sup></li> <li>Sand-lime brick, split, bossed: min. 0.7 l/m<sup>2</sup></li> <li>Render: min. 0.5 l/m<sup>2</sup></li> <li>Aerated concrete: min. 1.0 l/m<sup>2</sup></li> <li>Fibre cement: min. 0.3 l/m<sup>2</sup></li> <li>Concrete modular block: min. 1.2 l/m<sup>2</sup></li> <li>Natural stone, fine-pored: min. 0.6 l/m<sup>2</sup></li> <li>Natural stone, coarse-pored: min. 1.5 l/m<sup>2</sup></li> </ul>	System products	Art. no.
		*Use biocides safely. Alway	/s read

Quantity per pallet	84	24	2	1
Packaging unit	5 l	30 l	200 l*	1000 l*
	Tin canister	Tin canister	Drum	Container
Container code	05	30	69	61
Art. no.				
0641	•	-	•	•
*upon request				

\*Use biocides safely. Always read the label and product information before use.

#### Funcosil SN

Clear, hydrophobic impregnation on a silane/siloxane base, specially designed for solvent-sensitive building materials and connecting areas

Range of use	<ul> <li>Driving rain protection for facades</li> <li>Reduces susceptibility to dirt and gree</li> <li>Porous, mineral building materials suc mineral renders</li> <li>Adjacent or present solvent-sensitive of (core insulation or full heat protection)</li> </ul>	n discolouration h as brick, sand-lime brick, components such as polystyrene systems) or bitumen		
Property profile	<ul> <li>Improves resistance to freeze/thaw str</li> <li>Highly water repellent</li> <li>Water vapour diffusion open</li> <li>Good penetration capacity</li> <li>UV-resistant</li> <li>Alkali resistant</li> <li>Excellent long-term effect</li> <li>Compatible with solvent-sensitive buil polystyrene or bitumen</li> <li>Reduces energy loss</li> </ul>	esses ding materials such as		300-1000 ml Total 1 1m <sup>2</sup>
Application rate	<ul> <li>Sand-lime brick, smooth: min. 0.5 l/m<sup>2</sup></li> <li>Sand-lime brick, split: min. 0.7 l/m<sup>2</sup></li> <li>Fibre cement: min. 0.3 l/m<sup>2</sup></li> <li>Concrete: min. 0.5 l/m<sup>2</sup></li> <li>Brickwork, fine-pored: min. 0.8 l/m<sup>2</sup></li> <li>Render: min. 0.5 l/m<sup>2</sup></li> </ul>	-2	System products	Art. no.
	<ul> <li>Thermal insulation plaster: min. 0.6 l/r</li> <li>Aerated concrete: min. 1.0 l/m<sup>2</sup></li> <li>Lightweight concrete, min. 1.0 l/m</li> </ul>	n²	BFA*	(0673)
	- Lightweight concrete: min. 1.0 l/m		*Use biocides safely. Alw	ays read
Quantity per pallet	84	24	the label and product in before use.	ormation
Packaging unit	5 l	30 l		
	Tin canister	Tin canister		

Container code 05 30 Art. no. 0604 ■

## Funcosil WS

Hydrophobic impregnation on a silane/siloxane base in aqueous emulsion form

Range of use	<ul> <li>Driving rain protection for facades</li> <li>Reduces susceptibility to dirt and green discolouration</li> <li>Touching up old hydrophobic coatings after long-term exposure to weather</li> <li>Porous, mineral building materials such as sand-lime brick, natural stone, fair-faced brick masonry, mineral renders, aerated and lightweight concrete</li> <li>Subsequent impregnation of mineral paint coatings</li> <li>Adjacent or present solvent-sensitive components such as polystyrene (core insulation or full heat protection systems) or bitumen</li> </ul>		
Property profile	<ul> <li>Repels water</li> <li>Water vapour diffusion open</li> <li>Solvent-free</li> <li>UV-resistant</li> <li>Alkali resistant</li> <li>Excellent long-term effect</li> </ul>		500-1500 ml
Application rate	<ul> <li>Sand-lime brick, smooth: min. 0.5 l/m<sup>2</sup></li> <li>Sand-lime brick, split: min. 0.7 l/m<sup>2</sup></li> <li>Fair-faced brick: min. 0.8 l/m<sup>2</sup></li> <li>Coarse-pored brick: min. 1.5 l/m<sup>2</sup></li> <li>Aerated concrete: min. 1.3 l/m<sup>2</sup></li> <li>Lightweight concrete: min. 1.0 l/m<sup>2</sup></li> <li>Natural stone, fine-pored: min. 0.8 l/m<sup>2</sup></li> <li>Natural stone, coarse-pored: min. 1.5 l/m<sup>2</sup></li> </ul>	System products	Art. no.
		BFA	(06/3)

Quantity per pallet	84	24
Packaging unit	5 l	30 l
	Plastic canister	Plastic canister
Container code	05	30
Art. no.		
0614	•	

\*Use biocides safely. Always read the label and product information before use.

## Funcosil OFS

0617

Oleo- and hydrophobic, aqueous protective impregnation and low-maintenance finish

Range of use	<ul> <li>Easy-to-clean finish</li> <li>Reduces the accumulation of grease, household dirt, etc.)</li> <li>Care product for surfaces imp</li> <li>Mineral building materials</li> <li>Floors and walls</li> </ul>	dirt on natural stone kitchen workto pregnated with Funcosil OFS	ops (oil,	3
Property profile	<ul> <li>Repels oil, grease and dirt</li> <li>Repels water</li> <li>Water vapour diffusion open</li> <li>Alkali resistant</li> <li>Solvent-free</li> </ul>			
Application rate	<ul> <li>Brick: approx. 0.2 - 0.5 l/m<sup>2</sup></li> <li>Sand-lime brick: approx. 0.2 -</li> <li>Natural stone: approx. 0.5 - 1.</li> <li>Terracotta: approx. 0.3 - 0.8 l/</li> <li>Concrete slabs: approx. 0.2 -</li> </ul>	0.6 l/m² 0 l/m² 1m² 0.5 l/m²		200-1000 ml Total ↓ ↓ ↓ 1m <sup>2</sup>
Quantity per pallet	84	24		]
Packaging unit	5 l	30 l		
	Plastic canister	Plastic canister	System products	Art. no.
Container code	05	30	BFA*	(0673)
Art. no.			*Use biocides safely. Al	ways read

\*Use biocides safely. Always read the label and product information before use.

## Funcosil AG

Oleo- and hydrophobic protective impregnation

Range of use	<ul> <li>Easy-to-clean finish</li> <li>Reduces susceptibility to dirt</li> <li>Mineral building materials</li> </ul>	t and green discolouration	renier	1
Property profile	<ul> <li>Repels oil, grease and dirt</li> <li>Repels water</li> <li>Water vapour diffusion open</li> <li>Alkali resistant</li> <li>Anti-poster effect</li> <li>Solvent-based</li> </ul>		٠.	
Application rate	<ul> <li>Clinker: 0.1 - 0.3 l/m<sup>2</sup></li> <li>Brick: 0.2 - 0.4 l/m<sup>2</sup></li> <li>Sand-lime brick: 0.3 - 0.5 l/m</li> <li>Granite: 0.1 - 0.2 l/m<sup>2</sup></li> <li>Natural stone: 0.3 - 0.8 l/m<sup>2</sup></li> <li>Terracotta: 0.8 - 1.0 l/m<sup>2</sup></li> </ul>	12		100-1000 mi           Total           ↓ ↓           1m²
Quantity per pallet	84	24		
Packaging unit	5 l	30 l	(C) Á LUU	]
	Tin canister	Tin canister	System products	Art. no.
Container code	05	30	BFA*	(0673)
Art. no.			*Use biocides safely. Alw	ays read
0655	•	•	the label and product in before use.	formation

## Funcosil AS

Hydrophobic impregnation on a siloxane/acrylate base, colour intensifying and slightly strengthening

Range of use	<ul> <li>Driving rain protection for</li> <li>Reduces susceptibility to o</li> <li>Faded, porous, mineral bu concrete blocks</li> </ul>	facades dirt and green discolouration ilding materials such as brick, clinker and		
Property profile	<ul> <li>Intensifies colour</li> <li>Mild strengthening effect</li> <li>Repels water</li> <li>Water vapour diffusion op</li> <li>Good penetration capacity</li> <li>UV-resistant</li> <li>Alkali resistant</li> <li>Excellent long-term effect</li> </ul>	en /		
Application rate	<ul> <li>Old brick: min. 0.5 - 1.0 l/n</li> <li>Old clinker: min. 0.2 - 0.5 l</li> <li>Exposed aggregate concretering interior sand-lime brick: m</li> </ul>	n² /m² te: min. 0.25 l/m² nin. 0.5 l/m²		300-1000 ml Total ↓ ↓ ↓ 1m <sup>2</sup>
Quantity per pallet	84	24		
Packaging unit	5 l	30 l	System products	Art no
	Tin canister	Tin canister		Art. 110.
Container code	05	30	BFA*	(0673)
Art. no.	_		*Use biocides safely. Alwa the label and product infr before use.	iys read ormation
0640				

#### Funcosil AW

Silicone-free, hydrophobic impregnation agent

30

Range of use Property profile Application rate	<ul> <li>Production sites where coating or painting is carried out and adhesion problems are expected due to the use of conventional organosilicon compounds</li> <li>Driving rain protection for facades</li> <li>Reduces susceptibility to dirt and green discolouration</li> <li>Porous, mineral building materials in exterior areas</li> <li>Silicone-free</li> <li>Repels water</li> <li>Water vapour diffusion open</li> <li>Good penetration capacity</li> <li>Alkali resistant</li> <li>UV-resistant</li> <li>Excellent long-term effect</li> <li>Fibre cement: min. 0.3 l/m<sup>2</sup></li> <li>Fair-faced brick, fine-pored: min. 0.8 l/m<sup>2</sup></li> <li>Fair-faced brick, coarse-pored: min. 1.0 l/m<sup>2</sup></li> <li>Render: min. 0.5 l/m<sup>2</sup></li> <li>Thermal insulation plasters (no polystyrene): min. 0.6 l/m<sup>2</sup></li> </ul>		
Quantity per pallet	24	Sustam products	Art no
Packaging unit	30 l	System products	Art. no.
	Tin bucket	BFA*	(0673)
		FM FS	(0435)

Container code

Art. no.

0660

\*Use biocides safely. Always read the label and product information before use.

Remmers cleaning products

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## Funcosil FC

Hydrophobic impregnation in cream form on a silane base

Range of use	<ul> <li>Driving rain protection for facades</li> <li>Reduces susceptibility to dirt and green discolouration</li> <li>Porous, mineral building materials in exterior areas</li> <li>Driving rain protection for subsequent cavity insulation and interior insulation</li> </ul>	Į
Property profile	<ul> <li>Highly water repellent</li> <li>Water vapour diffusion open</li> <li>Improves resistance to freeze/thaw stresses</li> <li>Excellent penetration capacity</li> <li>UV-resistant</li> <li>Alkali resistant</li> <li>Excellent long-term effect</li> <li>Easy to apply accurately with no material loss</li> <li>Early resistance to rain, approx. 60 minutes after application</li> </ul>	
Application rate	<ul> <li>Depending on the porosity, in one coat: Approx. 0.15 - 0.20 l/m<sup>2</sup></li> </ul>	>1

Quantity per pallet	288	64	32
Packaging unit	0.75 l	5 l	12.5 l
	Plastic bucket	Plastic bucket	Plastic bucket
Container code	01	05	13
Art. no.			
0711	•	•	•





System products	Art. no.			
BFA*	(0673)			
FM FS	(0435)			
Remmers cleaning products				
*Use biocides safely. Always read the label and product information				
before use.				

# Funcosil FC pro

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Silane-based impregnation cream for substrate-specific hydrophobic treatment

Quantity per pallet	32	
Application rate	<ul> <li>Depending on the porosity, in one coat: Approx. 0.15 - 0.20 l/m<sup>2</sup></li> </ul>	12 Month wtcb-
Property profile	<ul> <li>Slows down capillary transport</li> <li>Water vapour diffusion open</li> <li>Excellent penetration capacity</li> <li>UV-resistant</li> <li>Alkali resistant</li> <li>Excellent long-term effect</li> <li>Easy to apply accurately with no material loss</li> </ul>	
Range of use	<ul> <li>Adaptive driving rain protection for facades</li> <li>Reduces susceptibility to dirt and green discolouration</li> <li>Porous, mineral building materials such as brick, clinker, sand-lime brick and render</li> <li>Supplementary measure for green renovations, in particular for capillary-active internal wall insulation</li> <li>Building-specific adapted (adaptive) reduction of capillary water absorption to ensure a high re-drying potential (preliminary investigation required)</li> </ul>	remmers Funcosa FC pro

	System products	Art. no.
_	BFA*	(0673)
	Remmers cleaning pro	oducts
	*Use biocides safely. Alwa the label and product inf	ays read ormation
	before use.	

≤ +25 °C

Quantity per pallet	32	Ľ	
Packaging unit	12.5 l		
	Plastic bucket	-	System prod
Container code	13		BFA*
Art. no.			Remmers cle
0703	•		*Use biocides s the label and p before use.
0703	•		*Use biocides the label and before use.

Minimum order quantity: 4 x 12.5 l | Lead time: Approx. 8 working days

#### **Funcosil FC PLUS**

Hydrophobic impregnation in cream form on a silane/siloxane base with colour intensifying effect

Range of use	<ul> <li>Driving rain protection for facades</li> <li>Reduces susceptibility to dirt and green discolouration</li> <li>Porous, mineral materials e.g. brick, clinker, sand-lime brick, render</li> <li>Supplementary measure for green renovations, in particular for subsequent cavity and interior insulation</li> </ul>	remmers
Property profile	<ul> <li>Repels water</li> <li>Water vapour diffusion open</li> <li>Intensifies colour</li> <li>Excellent penetration capacity</li> <li>UV-resistant</li> <li>Alkali resistant</li> <li>Excellent long-term effect</li> <li>Easy to apply accurately with no material loss</li> <li>Early resistance to rain, approx. 60 minutes after application</li> </ul>	
Application rate	<ul> <li>Depending on the porosity, in one coat: Approx. 0.15 - 0.30 l/m<sup>2</sup></li> </ul>	

Quantity per pallet	288	64	32
Packaging unit	0.75 l	5 l	12.5 l
	Plastic bucket	Plastic bucket	Plastic bucket
Container code	01	05	13
Art. no.			
0712	-	-	•



System products	Art. no.
BFA*	(0673)
*Uco biocidos cofoly. Alu	ave road

Use biocides safely. Always read the label and product information before use.

#### **Effectiveness check**

#### Funcosil Test Kit

Equipment for non-destructive testing of water uptake and effectiveness check of hydrophobic impregnations

Range of use	<ul> <li>Non-destructive testing of water uptake per unit time</li> <li>Effectiveness check of hydrophobic treatments</li> <li>Water absorption coefficient can be estimated according to DIN EN 772-11</li> </ul>	
Property profile	<ul> <li>Contents:</li> <li>4 x Funcosil test tubes</li> <li>1 x digital stopwatch</li> <li>1 x spray bottle (polyethylene)</li> <li>1 x scraper (width 30 mm)</li> <li>1 x butyl rubber (fastening)</li> </ul>	

Quantity per pallet			
Packaging unit	1 pcs	System products	Art. no.
		Funcosil	(4928)
Container code	01	test tube	
Art. no.			
4954	-		

# Graffiti protection impregnation

#### **Graffiti Protection**

Aqueous, semi-permanent graffiti protection impregnation agent on an alkylalkoxy silane/wax base

Range of use	<ul> <li>Mineral materials such as bit</li> </ul>	rick, natural stone, concrete, sand-lime brick		
Property profile	<ul> <li>Repels water</li> <li>Reduces adhesion</li> <li>Water vapour diffusion oper</li> <li>Aids the removal of graffiti v</li> <li>Solvent-free</li> <li>UV-resistant</li> <li>Alkali resistant</li> <li>BASt-listed</li> </ul>	n vith hot water jets		a de la de l
Application rate	<ul> <li>Clinker: 0.1 - 0.2 l/m<sup>2</sup></li> <li>Natural stone: 0.3 - 0.8 l/m<sup>2</sup></li> <li>Brick: 0.2 - 0.5 l/m<sup>2</sup></li> <li>Concrete: 0.2 - 0.3 l/m<sup>2</sup></li> </ul>			+ +
Quantity per pallet	90	24	E ≥ +10 °C	$\underbrace{\begin{array}{c} \downarrow  \downarrow  \downarrow  \downarrow  \downarrow  \downarrow  \downarrow  \downarrow  \downarrow  \downarrow $
Packaging unit	5 l	30 l		RAL
	Plastic canister	Plastic canister		
Container code	05	30		ANTI-GRAPPITI
Art. no.			System products	Art. no.
0685	-		BFA*	(0673)

\*Use biocides safely. Always read the label and product information before use.

# Render substrate preparation

# Quartz primer

Bonding layer and coating for mineral substrates with low absorptive capacity

Range of use	<ul> <li>Substrates with low absorptive capacity (shuttered in-situ concrete, precast concrete)</li> <li>Bonding layer for mineral and organic fillers and thin-coat plasters</li> <li>Texturing base coat</li> <li>On ceramic coverings</li> </ul>	Femm
Property profile	<ul> <li>Increases roughness/grip</li> <li>High adhesion capability</li> <li>White pigmented</li> <li>Coarse-filled</li> <li>Alkali resistant</li> </ul>	
Application rate	Approx. 0.25 l/m <sup>2</sup>	

Quantity per pallet	48	32
Packaging unit	5 l	12.5 l
	Plastic bucket	Plastic bucket
Container code	05	13
Art. no.		
2810	•	-



#### Mortar improver

## ZM HF [basic]

Mortar improver based on an aqueous polymer dispersion

Range of use	<ul> <li>Producing bonding slurries, bonding mortars, patch-up/repair mortars</li> <li>Improving screeds, renders and patch-up layers</li> <li>Primer for concrete, cement and anhydrite screeds</li> </ul>
Property profile	<ul> <li>Improves adhesive bonding</li> <li>Increases compressive strength</li> <li>Increases flexural strength</li> <li>Resistant to saponification</li> </ul>
Application rate	<ul> <li>For bonding layers, slurries: Approx. 0.1 - 0.2 kg/m<sup>2</sup></li> <li>For bonding mortar: Approx. 1.0 kg on 1 - 2 m<sup>2</sup> depending on layer thickness</li> </ul>

Quantity per pallet	360	126	50
Packaging unit	1 kg	5 kg	10 kg
	Tin canister	Tin canister	Tin canister
Container code	01	05	10
Art. no.			
0220	•	•	-





#### System products

Remmers restoration mortars

Remmers jointing mortars

Remmers waterproofing slurries

Remmers mineral plasters

#### Renders

# SP Prep

WTA-compliant preparatory mortar

Range of use	<ul> <li>Substrate preparation prior to applying mineral plasters</li> <li>Equalising different absorption characteristics of the substrate</li> </ul>	
Property profile	<ul> <li>High adhesion to the substrate</li> <li>High sulphate resistance and low effective alkali content (SR/NA)</li> <li>Compressive strength: CS IV</li> </ul>	
Application rate	<ul> <li>Full coverage approx. 4 - 6 kg/m<sup>2</sup></li> </ul>	
		Net WY Shows
Quantity per pallet	30	
Packaging unit	30 kg	
	Paper bag	
Container code	30	
Art. no.		4-6 kg/

System products	Art. no.
ZM HF [basic]	(0220)
Kiesol	(1810)
SP Top SL [basic]	(1050)

VTA)

Remmers renovation renders

#### Renders SP Prep rapid

Quick-setting preparatory mortar

Range of use	<ul> <li>Substrate preparation prior to applying mineral plasters</li> <li>Equalising different absorption characteristics of the substrate</li> </ul>
Property profile	<ul> <li>High adhesion to the substrate</li> <li>Quick-setting</li> <li>Can be overcoated after 90 minutes</li> <li>High sulphate resistance and low effective alkali content (SR/NA)</li> </ul>
Application rate	<ul> <li>Full coverage 4 - 6 kg/m<sup>2</sup></li> <li>Apply to a large enough trial area to determine the amount required</li> </ul>

	1 www.remmers.com	•	
30 kg	≤ +30 °C ≥ +5 °C	3 Min.	
	4-6 kg/ mm thickness full cover ↓ ↓ ↓ 1m <sup>2</sup>		
12 Month			

System products	Art. no.
Kiesol	(1810)
ZM HF [basic]	(0220)
SP Top SL [basic]	(1050)
Remmers renovation renders	

Quantity p	per pallet	30
Packaging	unit	30 kg
		Paper bag
Container	code	30
	Art. no.	
grey	0406	-
#### SP Levell

WTA-compliant, salt-accumulating pore render in renovation render systems for masonry with water and salt loads

Quantity per pallet	42	<u>З Міл.</u>
Application rate	• Approx. 9.5 kg/m-/cm tayer unckness	≤ +30 °C ≥ +5 °C
Application rate	Approx 0.5 kg/m²/cm layor thicknoss	
Property profile	<ul> <li>Old buildings, basements and facades</li> <li>Salt removal and moisture reduction</li> <li>Condensate buffer and protective layer on interior waterproofing</li> <li>High salt storage capacity</li> <li>Porosity&gt; 45 vol%</li> <li>High sulphate resistance and low effective alkali content (SR/NA)</li> <li>Water vapour diffusion open</li> <li>Capillary-active</li> <li>Single-layer application thickness 10 to 40 mm</li> <li>Machine-workable</li> <li>Compressive strength: CS III</li> </ul>	
Range of use	<ul> <li>Walls and masonry attacked by moisture and salt</li> </ul>	

Quantity per pallet	42		/
Packaging unit	20 kg	approx. 9,5 kg/ cm thickness	
	Paper bag		JAINS REACA
Container code	20		
Art. no.			THER TECHNOLO
0401 grey (inherent colour)	•	System products	Art. no.
Silo on request.		SP Prep	(0400)
		Kiesol	(1810)

Remmers renovation renders

Remmers waterproofing slurries

#### SP Top White

WTA-compliant renovation render for masonry with water and salt loads

Quantity per pallet	42	€ ± +30 °C
Application rate	<ul> <li>Approx. 8.5 kg/m<sup>2</sup>/cm layer thickness</li> </ul>	
Property profile	<ul> <li>High sulphate resistance and low effective alkali content (SR/NA)</li> <li>Water vapour diffusion open</li> <li>Single-layer application thickness up to 30 mm</li> <li>Machine-workable</li> <li>Compressive strength: CS II</li> </ul>	
Range of use	<ul> <li>Repair, renovation and restoration of damp walls and masonry containing damaging salts</li> <li>Interior walls of basements, old buildings and facades</li> <li>Use in combination with SP Levell to combat high salt levels</li> <li>Single layer can be used as undercoat and finishing coat</li> </ul>	

Qualitity per patiet	42
Packaging unit	20 kg
	Paper bag
Container code	20
Art. no.	
0402 white	•
Silo on request.	



System products	Art. no.
SP Prep	(0400)
Kiesol	(1810)
SP Levell	(0401)

Remmers waterproofing slurries

#### SP Top rapid

Quantity per pallet

Packaging unit

Container code

antique

white

Art. no.

0404

WTA-compliant renovation render for masonry with water and salt loads

42

20

20 kg

Paper bag

Range of use	<ul> <li>Fast repair of damp and salt-contaminated walls (interior walls in basements and old buildings)</li> <li>Facades, historic buildings and architectural monuments</li> <li>Use in combination with SP Levell to combat high salt levels</li> <li>Single layer can be used as undercoat and finishing coat</li> </ul>	
Property profile	<ul> <li>Fast setting</li> <li>High sulphate resistance and low effective alkali content (SR/NA)</li> <li>High salt storage capacity</li> <li>Water vapour diffusion open</li> <li>Pore hydrophobic</li> <li>Fibre-reinforced</li> <li>Promotes drying</li> <li>Single-layer application thickness up to 30 mm</li> </ul>	
Application rate	<ul> <li>~8.5 kg/m<sup>2</sup>/cm layer thickness, ~17 kg/m<sup>2</sup> for a 2 cm render thickness Apply to a large enough trial area to determine the amount required</li> </ul>	••



System products	Art. no.
Kiesol	(1810)
SP Prep rapid	0406
SP Top Q2	(0869)
SP Fill Q3	(0409)
Color SP	(3080)
Tex 6.5/100	(0236)

Remmers waterproofing slurries

#### **Compress Render**

WTA-compliant salt-bonding render/sacrificial render

Range of use	<ul> <li>Salt removal and moisture reduction</li> <li>Sacrificial render on salt-containing substrates</li> <li>Buffer layer under renders mixed according to historical formulations</li> <li>Old buildings, basements and facades</li> </ul>
Property profile	<ul> <li>High salt storage capacity</li> <li>Capillary-active</li> <li>Reversible</li> <li>Compressive strength: CS II</li> </ul>
Application rate	<ul> <li>Approx. 6.0 kg/m<sup>2</sup>/cm layer thickness</li> </ul>

Quantity per pallet		42	
Packaging unit		16 kg	
		PE bag	
Container code		16	
Art. no.			
1077	grey	•	
1073	special colours	•	



System products	Art. no.
CL Top Historic	(0576)
CL Levell Historic	(0575)

#### SP Top Q2

Mineral fine plaster

Range of	use 🔹	Surface and thin-coat plas	ter
Property ;	profile	Water vapour permeable Resistant to water, weather Suitable for manual and m Can be felted Grain size: < 0.5 mm Compressive strength: CS I	r and frost achine processing
Applicatio	on rate	Approx. 1.3 kg/m²/mm; ave	rage up to approx. 3.5 kg/m²
Quantity	per pallet	36	42
Packaging	gunit	25 kg	20 kg
		Paper bag	PE bag
Container	r code	25	20
Art. no.			
0408	antique white (inherent colour)	•	
0524	special colours		•

System products	Art. no.
Color SH	(0630)
Color LA	(6400)
Color PA	(6500)
Remmers renovation	renders

#### Filling knife

#### SP Fill Q3

Mineral surface filler and fine render

Range of use	<ul> <li>Creating fine, closed plastered surfaces that are ready for coating</li> <li>Smoothing renovation renders and mineral undercoats</li> <li>Mineral surface filler for use in interior and exterior areas</li> </ul>	
Property profile	<ul> <li>Can be painted and papered</li> <li>Can be felted</li> <li>Single layer thickness 1 - 5 mm</li> <li>Suitable for manual and machine processing</li> <li>Maximum grain size: approx. 0.3 mm</li> <li>Compressive strength: CS II</li> </ul>	
Application rate	<ul> <li>Approx. 1.3 kg/m<sup>2</sup>/mm layer thickness, mean approx. 3.0 kg/m<sup>2</sup></li> </ul>	
Quantity per pallet	30	
Packaging unit	20 kg	

Quantity per pallet	30	ि = ≤ +30 °C ट्
Packaging unit	20 kg	S = +5 °C 3 Min
	PE bag	1,3 kg/ mm thickness
Container code	20	
Art. no.		
0409 antique white	•	System products
		Primer Hydro F

Primer Hydro F (2842)

12 Mo

Art. no.

Remmers renovation renders

#### Stucco replacement and repair

#### Stucco GZ

Fast-setting mortar for sculpting stucco cores

Range of use	<ul> <li>Creating and shaping stucco cores, profiles and cornices</li> <li>Repair and restoration of facades/stucco facades</li> </ul>	
Property profile	<ul> <li>Fast setting</li> <li>Single layer thickness 10 - 40 mm</li> <li>Grain size: &lt; 1.5 mm</li> <li>μ value: &lt; 18</li> <li>Compressive strength: &gt; 5.0 N/mm<sup>2</sup> (M5)</li> </ul>	
Application rate	<ul> <li>Approx. 1.1 kg/m<sup>2</sup>/mm layer thickness</li> </ul>	

Quantity per pallet	30
Packaging unit	25 kg
	PE bag
Container code	25
Art. no.	
0511 light grey	-



System products	Art. no.
ZM HF [basic]	(0220)
Stucco GF	(0521)
SP Prep	(0400)
Stucco FZ	(0512)

Stucco GF

Color SH

Stucco GZ

Color LA

(0521)

(0630)

(0511)

(6400)

#### Stucco FZ

Quick-setting mortar for fine surface decoration of new and old stucco

Range of use	<ul> <li>Coating stucco cores made from coarse mortar</li> <li>Patching up old, cement-bound stucco parts</li> <li>Creating smooth, sharp-edged profiles</li> </ul>	
Property profile	<ul> <li>Fast setting</li> <li>Repels water</li> <li>Single layer thickness 1 - 5 mm</li> <li>Grain size: &lt; 0.5 mm</li> <li>μ value: &lt; 18</li> <li>Compressive strength: &gt; 5.0 N/mm<sup>2</sup> (M5)</li> </ul>	
Application rate	<ul> <li>Approx. 1.3 kg/m<sup>2</sup>/mm layer thickness</li> </ul>	
Quantity per pallet	42	
Packaging unit	25 kg	440°C 24 Min.
	PE bag	1.3 kg/ mm thickness
Container code	25	
Art. no.		
0512 antique white	-	System products Art. no.

78

#### Stucco replacement and repair

#### Stucco GF

Fast-setting casting mortar for producing stucco elements

Range of use	<ul> <li>Factory production of stucco elements in a casting process</li> </ul>	
Property profile	<ul> <li>Fast setting</li> <li>Grain size: &lt; 1.5 mm</li> <li>μ value: &lt; 18</li> <li>Compressive strength: ~ 5.0 N/mm<sup>2</sup></li> </ul>	
Application rate	Approx. 1.1 kg/l void	-
Quantity per pallet	30	
Packaging unit	25 kg	→ ↓
	PE bag	
Container code	25	≤ +5°C
Container code Art. no.	25	5 × +5 °C

System products	Art. no.
Stucco GZ	(0511)
Stucco FZ	(0512)
Silicone AFM / Hardener AFM	(0736)

#### **Renovation renders**

#### VM Fill

Universal adhesive and reinforcement mortar

Range of use	<ul> <li>Adhesive and reinforcement mortar</li> <li>Repairing cracked render and WDVS facades</li> <li>Wall base render</li> </ul>
Property profile	<ul> <li>Repels water</li> <li>Water vapour permeable</li> <li>Good adhesion properties</li> <li>Resistant to water, weather and frost</li> <li>Machine-workable</li> </ul>
Application rate	<ul> <li>Approx. 1.2 kg/m<sup>2</sup>/mm layer thickness</li> </ul>

Quantity per pallet	36
Packaging unit	25 kg
	Paper bag
Container code	25
Art. no.	
0517 antique white	•





System products	Art. no.
Tex 4/100	(3880)
Color PA	(6500)
Color LA	(6400)
VM Fill rapid	(0519)
Color SH	(0630)
Color Flex	(2976)

Mor

#### VM Fill rapid

Fast-setting, feltable adhesive and repair mortar

Range of use	<ul> <li>Fast-acting adhesive mortar, filler and low-build render</li> <li>Repairing cracked render and WDVS facades</li> <li>Wall base render</li> </ul>	
Property profile	<ul> <li>Quick-setting</li> <li>Repels water</li> <li>Water vapour permeable</li> <li>Good adhesion properties</li> <li>Can be felted</li> <li>Resistant to water, weather and frost</li> </ul>	
Application rate	<ul> <li>Approx. 1.3 kg/m<sup>2</sup>/mm layer thickness</li> </ul>	
Quantity per pallet	42	
Packaging unit	25 kg	≤ 430 °C ≥ +5 °C
	PE bag	
Container code	25	$\begin{array}{c c} mm \text{ thickness} \\ \hline \bullet \bullet \bullet \bullet \\ \hline 1m^2 \end{array}$
Art. no.		
0519 antique white	•	



80

#### Filling knife

#### Multi Fill [basic]

Filling compound and surface filler

Range of (	use	<ul> <li>Interiors and exteriors</li> <li>Filler for plaster surfaces, p</li> <li>Facades under water-repel</li> </ul>	plane building blocks and finishing boards llent coatings		
Property p	profile	<ul> <li>Quick-setting</li> <li>Water vapour permeable</li> <li>Good adhesion properties</li> <li>Can be feathered out to ze</li> <li>Low-stress and sets withou</li> <li>Can be sanded</li> <li>Can be mixed with pigmen</li> <li>Resistant to water, weathere</li> <li>Compressive strength after</li> </ul>	ro ut cracking t r and frost r 28 days: > 15 N/mm²		approx
Applicatio	n rate	<ul> <li>Approx. 1.0 kg/m<sup>2</sup>/mm laye</li> </ul>	er thickness		, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
				approx appro	🍁
Quantity	per pallet	64	42	20 6,0- kg 7,5 I	<u>Ф</u> 3 Міл.
Packaging	unit	5 kg	20 kg	approx. 1,0 kg/ mm thickness	
		Plastic bucket	PE bag		
Container	code	05	20	12 Month	
Art. no.					
2809	white	•	•	System products	Art. no.
2808	grey	•	-	Color PA	(6500)
2806	special colours*		-	Color LA	(6400)

\*Minimum order quantity 840 kg

Color Flex

(2976)

#### Substrate pre-treatment/primers

#### Primer Hydro HF

Aqueous deep primer with strengthening and hydrophobising properties

Range of use	<ul> <li>Sanding, mineral substrates such as P</li> <li>Weathered old coatings capable of sup</li> </ul>	II and P III pporting a load
Property profile	<ul><li>Strengthening</li><li>Evens out absorption</li><li>Aqueous</li></ul>	
Application rate	<ul> <li>Approx. 100 - 200 ml/m<sup>2</sup> depending or</li> </ul>	the substrate
Quantity per pallet	90	24



Quantity per pallet	90	24	ाजा इन्द्र
Packaging unit	5 l	30 l	
	Plastic canister	Plastic canister	
Container code	05	30	
Art. no.			
0725	•	•	



System products	Art. no.
Color LA Fill	(0560)
Color SF [basic]	(6415)
Color LA	(6400)
Color PA	(6500)
WP Flow	(0431)

#### Substrate pre-treatment/primers

#### Primer Hydro F

Aqueous primer with strengthening effect

Range of use	<ul><li>Sanding, absorbent mineral substrates</li><li>Under ceramic coverings</li></ul>
Property profile	<ul> <li>Strengthens the surface</li> <li>Evens out absorption</li> <li>Fast drying</li> <li>Aqueous</li> </ul>
Application rate	■ Approx. 0.1 - 0.4 l/m <sup>2</sup> depending on the substrate



Quantity per pallet	90	24
Packaging unit	5 l	30 l
	Plastic canister	Plastic canister
Container code	05	30
Art. no.		
2842	•	-



System products	Art. no.
FL fix	(2817)
FL fix rapid	(2866)
FF 1K	(2868)
FL fix [basic]	(2859)
FL fix white	(2850)

Art. no.

(0630)

#### Primer Hydro S HF

Mineral primer with hydrophobic and strengthening effect

Range of use	<ul> <li>Porous, mineral building materials such as brick, sand-lime brick, mineral renders</li> <li>Chalking mineral coatings</li> </ul>	
Property profile	<ul> <li>Evens out absorption</li> <li>Strengthening</li> <li>Silicifies the substrate</li> <li>Alkali resistant</li> <li>Mineral-based</li> <li>Aqueous</li> </ul>	renmers
Application rate	<ul> <li>Approx. 0.2 - 0.3 l/m<sup>2</sup> depending on the substrate</li> </ul>	
Quantity per pallet	84	
Packaging unit	5 l	

Plastic canister Container code 05 Art. no. System products 0624 Color SH



#### Coating systems

#### Color SH

Mineral paint with fine-grained structure

Range of use	<ul> <li>Porous, mineral building materials such as brick, sand-lime brick, mineral renders</li> <li>Renovation coating on load-bearing mineral and siliceous substrates</li> </ul>	
Property profile	<ul> <li>Fine-grained surface texture</li> <li>Optimum adhesion to the substrate</li> <li>Good resistance to weathering</li> <li>Water vapour diffusion open</li> <li>Repels water</li> <li>Mineral water-based</li> </ul>	Color SH
Application rate	<ul> <li>Approx. 200 ml/m<sup>2</sup> per coat depending on the substrate properties</li> </ul>	

Quantity pe	er pallet	32	
Packaging unit		12.5 l	
		Plastic bucket	
Container code		13	4
Art. no.			
0630	white	•	
0634	special colour	•	

	H <sub>2</sub> 0	•
€ +25 °C ≥ +5 °C	>1 <b>1</b>	$\begin{array}{c} 400 \text{ ml} \\ \text{Total} \\ \downarrow \\ 1\text{m}^2 \end{array}$
	12 Month	

System products	Art. no.
Primer Hydro S HF	(0624)

(0624)

#### **Coating systems**

#### **Color LA**

"Real" silicone resin paint with film preservative to protect surfaces at risk of algae growth and fungal attack

Range of use	<ul> <li>Porous, mineral building materials in exterior areas</li> <li>Load-bearing silicate, silicone and matt dispersion coatings</li> <li>Synthetic resin renders</li> </ul>	
Property profile	<ul> <li>Water repelling w ≤ 0.1 kg/(m<sup>2</sup> h .<sup>0.5</sup>)</li> <li>Highly water vapour diffusible s<sub>d</sub> ≤ 0.05 m</li> <li>No interference with the carbonation reaction</li> <li>Low-stress</li> <li>Matt, mineral character</li> <li>Does not attract dirt</li> </ul>	Color LA
Application rate	<ul> <li>Approx. 0.2 - 0.25 l/m<sup>2</sup> per coat</li> </ul>	

Quantity per pallet		48	32
Packaging unit		5 l	12.5 l
		Plastic bucket	Plastic bucket
Container code		05	13
Art. no.			
6400	white	•	•
6430	Colour collection	•	•
6429	special colours*	•	•
*Only available upon consultation - intense colours not possible			



System products	Art. no.
Primer H	(0642)
Color LA Fill	(0560)
Primer HF	(6438)
Primer Hydro HF	(0725)

#### Color LA Fill

Quantity per pallet

Packaging unit

Container code

white

special colours

Art. no.

0560

0561

Filling, "true" silicone resin paint

Range of use	<ul> <li>Porous, mineral building materials</li> <li>Load-bearing silicate, silicone and matt dispersion coatings</li> <li>Synthetic resin renders</li> <li>Surfaces with different roughnesses and hairline cracks</li> <li>Intermediate coat under Silicone Resin Paint LA</li> </ul>	f
Property profile	<ul> <li>Fibre-reinforced</li> <li>Water repelling w ≤ 0.1 kg/(m<sup>2</sup> h .<sup>05</sup>)</li> <li>Highly water vapour diffusible s<sub>d</sub> ≤ 0.05 m</li> <li>No interference with the carbonation reaction</li> <li>Low-stress</li> <li>Matt, mineral character</li> <li>Fine-sandy, rough texture</li> </ul>	
Application rate	■ Annrox 03 - 05 kg/m²	



		••
≤ +25 °C ≥ +5 °C		0,3 - 0,5 kg Total Im <sup>2</sup>
	12 Month	

System products	Art. no.
Primer H	(0642)
Color LA	(6400)
Primer HF	(6438)
Primer Hydro HF	(0725)

Only adjustable following consultation - no intense colours possible

32

10

10 kg

Plastic bucket

#### Coating systems

#### Color SF<sup>[basic]</sup>

Silicone-resin-reinforced facade paint with film preservative to protect surfaces at risk of algae growth and fungal attack

Range of use	<ul> <li>Porous, mineral building materials in exterior areas</li> <li>Load-bearing silicate, silicone and matt dispersion coatings</li> <li>Synthetic resin renders</li> </ul>	
Property profile	<ul> <li>Highly water repellent w ≤ 0.1 kg/(m<sup>2</sup> · h<sup>0.5</sup>)</li> <li>Highly water vapour diffusible s<sub>d</sub> ≤ 0.14 m</li> <li>Low-stress</li> <li>Matt, mineral character</li> </ul>	Color strengt
Application rate	Approx. 0.2 - 0.3 l/m <sup>2</sup> per coat	

Quantity p	er pallet	48	32
Packaging unit		5 l	12.5 l
		Plastic bucket	Plastic bucket
Container code		05	13
Art. no.			
6415	white	•	•
6420	special colours*	•	•
*Only available upon consultation - intense colours not possible			



System products	Art. no.
Primer H	(0642)
Primer HF	(6438)
Primer Hydro HF	(0725)

Primer Hydro HF

(0725)

#### Color Sil<sup>[basic]</sup>

86

#### Facade paint with mineral character

Range of use	<ul> <li>Porous, mineral building ma</li> <li>Mineral substrates PII and P</li> <li>Load-bearing silicate, silicon</li> <li>Synthetic resin renders</li> <li>Water repolling w.c. 01 kg/(m</li> </ul>	terials in exterior areas III e and matt dispersion coatings	remmersbas	sic
Property prome	<ul> <li>Water repeting w s 0.1 kg/(fr</li> <li>Water vapour diffusible s<sub>d</sub> ≤</li> <li>Low-stress</li> <li>Matt, mineral character</li> </ul>	0.17 m	Color Sil Penel	
Application rate	Approx. 0.2 - 0.3 l/m <sup>2</sup> per coa	at		
Quantity per pallet	48	32		•
Packaging unit	5 l	12.5 l	≤ +25 °C	200-300 ml
	Plastic bucket	Plastic bucket		1m <sup>2</sup>
Container code	05	13		
Art. no.				
2930 white	•	•	System products	Art. no.
2931 special colours		•	Primer H	(0642)
Only adjustable following consul	tation - no intense colours possibl	e	Primer HF	(6438)

#### Roof coating systems

#### **Color PA Roof**

2533

2538

slate grey

special colours

Special coating for mineral substrates on a pure acrylate base

Range of u	se As Pi Co At	bestos-free fibre-cement panels (for roofs and facades) tched roofs oncrete roofing tiles osorbent clay roofing tiles		
Property pi	rofile = Hi = W = Fi = W = Co	ghly water repellent w ≤ 0.1 kg/(m² · hº5) ater vapour diffusible ore-binding eather-resistant olourfast	Collor PA Roof	
Applicatior	n rate ■ Ap	pprox. 0.2 l/m² per coat		*
				* *
Quantity p	er pallet	32		
<b>Quantity p</b> Packaging	<b>er pallet</b> unit	<b>32</b> 12.5 l		
Quantity p	<b>er pallet</b> unit	<b>32</b> 12.5 l Plastic bucket		
Quantity p Packaging of Container of	er pallet unit	32 12.5 l Plastic bucket 13		200 ml 1 1 1 1m <sup>2</sup>
Quantity p Packaging r Container of Art. no.	er pallet unit code	32 12.5 l Plastic bucket 13		200 ml
Quantity p Packaging d Container d Art. no. 2531	er pallet unit code	32         12.5 l         Plastic bucket         13	$ \begin{array}{c}                                     $	

Primer HF

(6438)

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