

Technical Information Sheet Article No. 0517/0519

Compound Mortar

0517 Remmers Compound Mortar
Restoration System antique white
0519 Remmers Compound Mortar S - fast
Restoration System antique white

High quality reinforcement and filling mortar system for fast and reliable repair of facades (cementing of insulation sheets, bedding reinforcement fabric, repairing cracked render facades, structuring the surface

Range of use

Remmers Compound Mortars are used as a cementing, reinforcing, filling and repair mortar for repairing cracked render facades and for work with bonded heat insulation systems.

Remmers Compound Mortar (normal setting):

- Repair mortar for bedding reinforcement fabric on cracked render facades and for repairing bonded heat insulation systems.
- Mortar and levelling filler for smoothing unevenness in texture on cleaned and, if necessary, pre-treated and load-bearing old render surfaces
- Repair of missing areas and pipes
- Cementing mortar for attaching insulation boards in interior and plinth areas (above ground level)

Remmers Compound Mortar S (fast setting):

- Fast repair mortar for detached render and larger depths (even several centimetres) used prior to reinforcement filling or surface texturing.
- Can be coated over after 2 hours!

Characteristic data of the product

Bulk density:	approx. 1.4 kg/dm ³
Colour:	antique white
Quality control:	factory and external control of composition and quality
Composition:	mineral binder, prepared mineral aggregates according to DIN 4226, special fillers and synthetic resin additives
Largest grain:	0.5 mm
Compressive strength:	> 5 N/mm ²
Capillary water absorption DIN 52617:	w < 0.2 kg/m ² h ^{0.5}
Water vapour diffusion (2 mm layer thickness)	S _d ≤ 0.5 m DIN 52615 (limit value ≤ 1.0 m)

Waiting times between individual working operations:

Remmers Compound Mortar	approx. 10 hours*
Remmers Compound Mortar S	approx. 2 hours*

* depending on temperature

- Fast repair mortar for bedding reinforcement fabric on cracked render facades and for repairing bonded heat insulation systems.
 - Feltable fast filler for a coating-ready surface texture in just a few hours
 - Fast cementing mortar for attaching insulation boards in plinth and indoor areas
 - Fast mortar and levelling mortar for smoothing unevenness in texture on cleaned and, if necessary, pre-treated and load-bearing old render surfaces.
- Remmers Compound Mortar and Compound Mortar S can also be used on mineral wall building materials and substrates that are suitable for the application of render, e.g. masonry work made of building materials with hydraulic setting binders as well as masonry work with natural, standard or Building Inspectorate approved building materials, aerated concrete, masonry brick, sand-lime brick, concrete according to DIN 1045 as well as load-bearing synthetic resin renders. Remmers Compound Mortars should not be used on gypsum substrates.

Property profile

Remmers Compound Mortars are factory-mixed, highly modified, cementitious facade repair systems. Damaged render facades can be reliably and completely repaired by simply using these products.

The mortar system is easily produced and worked either by hand or with conventional render machines equipped with an after mixer.

Remmers Compound Mortars

- are very smooth and easy to work
- normal setting (Remmers Compound Mortar) or fast water binding and can be coated over after approx. 2 hours (Remmers Compound Mortar S)
- green stable, high yielding, machine workable
- adhere well when used as a cement for insulation boards and for coating cementitious substrates
- are water repelling, highly water vapour permeable
- water, weather and frost resistant, stress equalising

Substrate

Pre-treatment:

The substrate must be load-bearing and free of substances that could interfere with the adhesion of Remmers Compound Mortar (e.g. release agents, loose material, dust, sanding, efflorescence, dirt).

Thoroughly remove old and damaged renders and coatings that do not adhere soundly.

The strength and adhesion of load-bearing synthetic resin renders to the substrate should be tested in the dry and wet state. Clean old render surfaces.

Infestation with alga, fungus or moss should be treated with Remmers Impregnation BFA and washed off after the acting time with a high pressure water jet. Load-bearing old coats of paint/coatings that do not chalk should also be cleaned with high pressure equipment.

The substrate should be dry and not show any pressing moisture. Treat rising damp in the Remmers Kiesol System. Adhesion on absorbent substrates can be improved by light pre-wetting.

Detached render and greater missing depths:

Partial detachment of the render and greater depths (even several centimetres) can be quickly closed with Remmers Compound Mortar S, Art. No. 0519. Reinforcement filling, surface texturing or coatings can be applied after approx. 2 hours.

Directions

Mixing:

Pour 5.8 to 6.0 litres of water into a clean container/mortar tub and add a **25 kg bag of Remmers Compound Mortar or Remmers Compound Mortar S**. Mix the mortar intensively with a mixer or mixing tool for approx. 3 minutes until homogeneous and the proper working consistency has been achieved.

Pot-life:

Approx. 3 hours – depending on temperature for Remmers Compound Mortar, Art. No. 0517. Approx. 45 minutes – depending on temperature for Remmers Compound Mortar S, Art. No. 0519.

Initially set bonding mortar cannot be made workable again by adding water or fresh mortar. Do not use at temperatures below +5°C. Lower temperatures lengthen, higher temperatures reduce working and setting time.

Application:

Apply mixed Remmers Compound Mortar by hand or use a machine and, depending on requirements, work with the usual tools. Working sequence and layer thickness depend on the task at hand.

Layer of reinforcement

When applying Remmers Compound Mortar or Remmers Compound Mortar S as a reinforcement layer on cracked render substrates or on the surface of insulation boards, the mortar is

applied in a layer 3 to 4 mm thick, using a toothed trowel 10/12 and combed while fresh. Lay Reinforcement Fabric 5/100 directly into the fresh bonding mortar and level the surface with a smoothing trowel.

Make sure that the sheets of reinforcement fabric overlap 10 cm. This reinforcement layer should be 3-4 mm thick but not exceed 6 mm. The fabric should lie in the upper zone and be covered by at least 1 mm of Remmers Compound Mortar. If necessary, apply an additional thin filling layer. In areas around openings in buildings, bed additional diagonal reinforcement.

If work is interrupted, the reinforcement fabric in the last sheet should be left without bonding mortar in an edge zone approx. 20 cm wide so that when work is continued, the next sheet of reinforcement fabric can be overlapped 10 cm and fresh bonding mortar can be applied seamlessly.

Surface texturing

To smooth over trowel marks apply a thin coat (2-3 mm) of **Remmers Compound Mortar S** and after 30 to 45 minutes, rub with a red foamed rubber float to create a smooth substrate that is ready for coating.

Smooth, feltable fine render coatings can be executed with Remmers Fine Render. Apply Remmers Fine Render with a toothed rule or trowel and smooth. The mortar can be felted after 30-60 minutes.

Other decorative and finishing renders such as e.g. Remmers Dekor Render L can be applied to the reinforcement layer after a standing time of 1-3 days (depending on weather). Notes on priming are found in the respective Technical Information Sheets.

Coating

Surfaces in outdoor areas should then be coated with Remmers Silicone Paint LA or Remmers Historic Scumble.

Cementing insulation boards

To **cement insulation boards** in indoor and outdoor areas (above ground level), use Remmers Compound Mortar (Art. No. 0517) or Remmers Compound Mortar S (Art. No. 0519 – fast setting). Cementing can be carried out with a spot-bead or a toothed bed method. Place the boards so that they join tightly.

On uneven substrates, the spot-bead method is used for cementing and the mortar is applied to the hind side of the boards. At least 40% of the surface of the substrate must be cemented and the edges of the boards must be completely cemented. The mortar should be sloped toward the edges so that no cement comes between the abutting ends of the boards. At least 6 cementing spots should be placed per 0.5 m² board surface.

Insulation boards should not be cemented only by spot cementing. On highly uneven substrates, apply the mortar with a toothed trowel 10/12, using a combed bed method, positioning the boards in place immediately afterward.

Notes on execution and after-treatment

Do not interrupt work when coating adjoining surfaces. On larger surfaces and when using the fast repair system, Remmers Compound Mortar S (Art. No. 0519) on several levels of scaffolding, coating should be carried out on all levels at the same time to avoid seams.

Do not work Remmers Compound Mortar and Remmers Compound Mortar S in direct sunlight. Protect from drying out too quickly through sunlight, wind and drafts according to the rules of the trade. If a fresh coating of normal setting Remmers Compound Mortar is drying out too quickly, dampen the surface lightly with misted water.

When executing work, always observe DIN 18550 and DIN 18350. When the mortar is applied by machine, see Remmers product information, "Working Renders and Mortars by Machine".

Tools, cleaning

Mixing containers, mixer/mixing tool, positive mixer or render machines with an after mixer, e.g. P.F.T. G4 with Rotoquirl, Putzknecht S 48 classic or S 58, both with after mixer. Float, trowel, toothed trowel, smoothing trowel, felting float with red foamed rubber.

Packaging, application rate, shelf-life

Packaging:
25 kg paper bags

Application rate:
Approx. 1.2 kg/m²/mm layer thickness
Approx. 5.0 kg/m² on smooth surfaces and up to 8.0 kg on textured surfaces when cementing
Approx. 5.2 kg/m² for bedding reinforcement fabric

Shelf-life:
Approx. 12 months in closed bags, stored dry and protected from moisture on wooden grids

Safety, ecology, disposal

Further information on safety when transporting, storing and handling as well as on disposal and ecology is found in the latest Safety Data Sheet.



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