



Technical Data Sheet
Art. No. 0638, 0643

Priming Mortar

Mineral stone replacement mortar for filling deeper missing areas



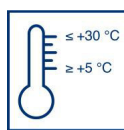
For use in-
doors and
outdoors



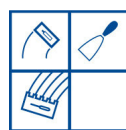
Dry mortar /
water



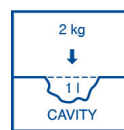
Maturing time



Working
temperature



Mortar cover /
filling knife /
trowel applica-
tion



Total applica-
tion rate per l
void



Shelf-life



Protect from
moisture!

Range of use

Remmers Priming Mortar is used for internal core construction beneath Remmers Restoration Mortar, especially in deeper missing areas that require multiple-layer construction.

Property profile

Priming Mortar is a ready to use, plant-mixed, dry mortar made of pure mineral raw materials and aggregates. Its physical characteristics correspond to the requirement for the lowest possible inherent stress and physical-mechanical properties that are coordinated to the natural stone substrate (compressive and bonding strength, water transport, etc.).

The product comes in two strengths (normal = Art. No. 0643 and soft = Art. No. 0638)!

When properly applied, very good adhesion to the substrate is achieved.

Characteristic data of the product

Colour:	grey
Largest grain:	up to 2 mm
Density:	(apparent density) approx. 1.8 kg/l
Tensile bending strength	after 7 days approx. 4 N/mm ² after 28 days approx. 5 N/mm ²
Resistance to compression:	normal > 20 N/mm ² soft > 15 N/mm ²
E-modulus (DIN 1048):	normal approx. 18.000 N/mm ² soft approx. 10.000 N/mm ²
Shrinkage deformation (DIN 52450):	after 7 days approx. -0.4 mm/m after 28 days approx. -0.7 mm/m

Directions

Clean the substrate thoroughly. Depending on the type of soil, use Remmers Traffic Film Remover (Art. No. 0671) or Facade Cleaner Paste (Art. No. 0666). Carefully chase out weathered parts down to sound stone. In the case of building ornaments and sculptures that are valuable from a heritage standpoint, remove crusts of soil carefully and strengthen intensively several times with the appropriate Remmers Stone Strengthener to preserve. As a rule, the stone must be chased out so that a layer of mortar at least 2 cm thick can be ap-

plied. The applied mortar may not be "feathered out to zero". In case of strongly cantilevered or hanging building elements such as cornices, etc., supporting reinforcement in the form of plastic star dowels or stainless steel dowels should be used. Anchorage is executed with plastic dowels or thickened Remmers Epoxy BH 100 (Art. No. 0905). Only 2 - 3 cm thick layers of Priming Mortar should be applied at one time. After blowing off with compressed air, pre-wet the substrate thoroughly and apply a grout (Priming Mortar / water in a mixing ratio of 3:1), using a brush, in a layer

2 mm thick. Core construction is then carried out with Priming Mortar in a plastic, earth-moist consistence (approx. 750 ml water to 5 kg Priming Mortar). Waiting time between applications is 24 hours.

Working procedure

Example of a restoration procedure using a stone mason's tools and Remmers Priming Mortar and Restoration Mortar:

1. Mark the defective areas in an appropriate angle, using a hard pencil or diamond cutter.
2. Cut or chisel out the defective areas at an angle approx. 0.3 cm deep.
3. Chase out all loose and friable parts in the entire, cut-out area. In case of deeper missing areas or strongly cantilevered building elements:
4. Drill holes approx. 8 mm deep in missing areas deeper than 3 cm, also on the undersides and drip moulds of cornices and projections in squares of 5-8 cm.
5. Insert plastic dowels into the holes (blow out first).
6. Screw corrosion resistant wood screws into the dowels. Distance from substrate approx. 1 - 1.5 cm. (Brass screws are not corrosion resistant. We recommend screws made of V4A material, size 5/50 or 5/60.) When star dowels are used, item 5 and 6 do not apply.
7. Clean the dusty substrate thoroughly, best with a high pressure cleaner.
8. Moisten the defective areas.
9. Grout immediately with thin-plastic Priming Mortar.
10. Then apply thick-plastic Priming Mortar to the freshly grouted area. Do not apply a layer thicker than 2 cm at one time within 24 hours. Maintain the joint network. In the case of multiple-layer construction, roughen the first layer after it has thoroughly dried and pre-wet. Grout again with thin-plastic Priming Mortar and while fresh apply a 2nd layer of thick-plastic Priming Mortar.
11. After approx. 2-6 hours or, depending on weather, when the grain pops, scrape the surface of the priming mortar or profile until it is at least 3-5 mm below the final surface.
12. After 24 hours, moisten the filled-in missing area.
13. Grout with thin-plastic Restoration Mortar.
14. Then apply thick-plastic Restoration Mortar (as described for Priming Mortar in sections 9 -11, however to approx. 2 mm above the final surface.
15. Carefully compact the initially set Restoration Mortar with a foam rubber float or suitable wood tool. Do not use a metal trowel!
16. Carefully level the initially set mortar and press down in edge zone areas.
17. Adjust the dressing tools to the type of surface dressing needed to match the surrounding stone.
18. After initial setting, when the grain pops, depending on weather, dress to match the appearance of the surrounding stone, e.g. with a saw blade with segmented teeth.
19. Sweep off the repaired areas carefully with a soft broom.
20. Remove the remains of grout from edge zone areas between the natural stone and the restoration mortar by washing off or sandblasting with a special gun.
21. Moisten all restored areas several times during the next 14 days.
22. Three to four weeks after the stone restoration measures have been carried out, the entire weathered natural stone can be strengthened with one of the Remmers stone strengtheners (depending on the object).
23. Adjust the colour of the restored areas with Remmers Historic Scumble (Art. No. 6476) (water repelling touch-up) or with the silicate chalk technique (Bohringer system).
24. Treat with Remmers impregnation agents for long term protection against driving rain and atmospheric pollutants dissolved in water.

Notes

Do not use if the temperature of the air, substrate and building material is below 5 °C or above +30 °C. The characteristic data given for this product were determined under laboratory conditions at 20 °C and 65 % relative humidity.

Low temperatures lengthen, high temperatures reduce working and setting time.

Maturing time approx.

2 minutes, then mix again and, if necessary, add max. 2 - 3 % water to achieve the proper consistence for application. Setting should be monitored, especially in warm weather and strong wind. In the cases described above, the replaced areas must be subsequently wet at least twice a day during the next four days. After the grain pops, the missing areas filled with Priming Mortar are scraped out at least 5 mm below the final surface and, after thorough pre-wetting, a layer of Restoration Mortar is applied. See Notes on working found in the technical Data Sheet for Restoration Mortar (Art. No. 0748).

May contain traces of pyrite or iron sulphide.

Tools, cleaning

Brush, trowel, filling knife, foam rubber float, scraper, stone mason's tools, high pressure jet, poultices, etc.
Clean tools with water while the material is still fresh.

Packaging, application rate, shelf-life

Packaging:

25 kg, 30 kg paper bags

Dry mortar-application rate:

Approx. 2.0 kg/l void

Shelf-life:

At least 12 months stored dry in closed bags

Safety, ecology, disposal

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

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