

TECHNICAL DATA SHEET  
ID Product Code 236EDPSLG25  
Rev. 01/2020

# PRIMASIL MAX

## WATERPROOFING MORTAR

For waterproofing masonry and concrete surfaces.

PRIMASIL is an osmotic cementitious mortar for waterproofing masonry, concrete and prestressed concrete products. It is a specific product for repairing masonry and underground substrates subject to water or moisture infiltration, also in counterthrust (negative pressure). The product is suitable for waterproofing tanks, cisterns, reservoirs, concrete pipes, wet rooms, elevator shafts, foundations, irrigation canals, underground walls and is suitable both internal and external use.

### Composition

PRIMASIL is based on special hydraulic binders, siliceous and calcareous aggregates, synthetic resins, and special additives which improve the product quality in terms of adhesion, water resistance and workability.

### Mixing and application


The surfaces to waterproof must be stable, clean, consistent, free of brittle parts, dust, bacterial proliferation, saline efflorescence, oil, grease, wax and residues of previous work, paint, varnish etc. If necessary eliminate with scarifier or by sandblasting the degraded area. All plaster must be stable and anchored to the substrate. Seal any cracks on the surface to be treated and repair any degraded parts by applying the repair mortar GROUTMAX THIXO or GROUT RAPIDO. Wet the substrate surface thoroughly and allow the excess water to evaporate before applying the waterproofing mortar. Mix a 25 kg bag of PRIMASIL MAX with approx. 6.0-6.5 litres of clean water using an electric mixer until smooth and free of lumps. Leave to sit for about 3' minutes before proceeding with application. The prepared product is to be used within about 45' minutes after mixing with water. Do not add further water and mix again to reuse after this time. Apply PRIMASIL MAX with a brush or a spatula. The waterproof mortar must be applied in two or more coats with alternating horizontal and vertical strokes as to ensure complete penetration of the product. Wait (4-6 hours depending on conditions of application and surface absorption) between each coat to ensure that the previous coat is dry, however within 24 hours of the previous application. In all cases PRIMASIL MAX must be applied with a final thickness of about 2-3 mm. The properties of the product are such that it can only be used for rigid waterproofing and cannot be subject to traffic. When applied to flooring the waterproofing mortar must be protected by a suitable mortar screed with a thickness of no less than 40 mm.



## Recommendations

Do not mix the product manually, but use an electric mixer at low speed. Protect the treated surfaces from sunlight and rapid drying. In low temperatures, verify that the product is dry before laying ceramic tiles. Assess the products adequacy if rained upon during the drying phase before applying further products. Do not apply on gypsum based or anhydrite substrates without previously treating with specific primers. Do not apply on substrates of metal, wood, bituminous membranes, inverted roofs with insulation or lightweight substrates. Do not use for exposed waterproofing coatings. Use the appropriate tape for proper sealing of corners, edges and expansion joints.

## Chemical characteristics

Appearance	Powder
Colour	White or grey
Dry bulk density	1300 kg/m <sup>3</sup> (EN 1015-10)
Maximum aggregate size	≤ 0.4 mm
Water content of mixture	24-26%
Mixing ratio	By weight (100 part powder + 24 to 26 parts water)
Minimum application temperature	+ 5°C
Maximum application temperature	+ 35°C
Minimum application thickness	2 mm
Working time	≥ 45' minutes
Bulk density of fresh mortar	~ 1800 kg/m <sup>3</sup> (EN1015-6)
Bulk density of hardened mort	~ 1400 kg/m <sup>3</sup> (EN1015-10)
Flexural strength	≥ 6,0 N/mm <sup>2</sup> (EN12190)
Compressive strength	≥ 25,0 N/mm <sup>2</sup> (EN12190)
Water vapour permeability	Class I - SD 1.33 m (EN ISO 7783-1)
Capillary water absorption and water permeability	W < 0.024 kg/m <sup>2</sup> h 0,5 (EN 1061-3)
Tensile bond strength	1.44 N/mm <sup>2</sup> (EN 1542)
Release of dangerous substances	See MSDS
Tensile adhesion strength after freeze-thaw cycles	≥ 1.7 N/mm <sup>2</sup> EN 1348
Release of dangerous substances	See MSDS
Certification 	EN 1504:2 Coating for surface protection on concrete -Humidity control (2.2) -Increase resistivity (8.2)
Shelf life	12 months from production date in its original packaging (unopened container) between 5° and 30° C in a cool dry place.

\* indicative values, depending on the nature of the material and environmental conditions



### Coverage

1.4 kg per m<sup>2</sup> (sqm) per mm of thickness



### Storage

12 months in original intact packaging and stored in a dry place.



### Packing

25 kg bags

## Safety procedures

As far as the proper working procedures is concerned, we recommend to consult Material Safety Data Sheets issued according to E.U. rules and to follow your national laws concerning safety in the working place. MSDS is available on our web site [www.primaxbuild.it](http://www.primaxbuild.it)

## Trademark and Origin of the good

PRIMAX<sup>®</sup> is a registered trademark of Bellinzoni company. The law considers a trademark to be a form of property and any misuse can be persecuted by law. Bellinzoni s.r.l. declares that our product PRIMASIL MAX is MADE IN ITALY.

DISCLAIMER All data indicated in this leaflet are the results of tests and experiments carried out in our laboratories and through reliable operators in the stone business and have to be considered reliable. Because of the many factors which can influence them, the information here reported do not constitute implicit or formal guarantees. The end user undertakes the responsibility in the usage of the product making sure to experiment the product characteristic as preventive measure