



TECHNICAL DATA SHEET

Rev. 12/2020

MASILEX GP2

EPOXY STRUCTURAL ADHESIVE SUITABLE FOR WET SURFACES
IN COMPLIANCE WITH THE 1504-4 STANDARD FOR STRUCTURAL BONDING

Features

Excellent thixotropy but with a soft consistency / Adheres to concrete surfaces, even if wet.
Excellent mechanical characteristics. / Easy to mix and apply / High structural adhesion on various materials.
Curing without shrinkage/ Good resistance to chemicals / Suitable for use on structures permanently immersed in water.
Minimum application temperature: +0°C / Working temperature in air from -30°C to +85°C.

Field of use

Restoration of casting between concrete / Smoothing of surfaces before laying flooring and coatings.
Excellent for grouting tie-rods, studs, etc. / Structural bonding of various materials such as: natural stone, marble, brick, ceramic, carbonsteel, aluminium, wood, glass and polyester

Mixing and application

Substrate preparation

Substrate preparation is fundamental, thus the surface to be treated must be free of any pollutant, dry, coherent and it must have a bond strength of at least 1,5 MPa. In any case it is necessary, depending on the type of surface, to make a preparation of the flooring by milling, shot peening, smoothing or sanding.

Free and stagnant water coming from the foundation, from previous washing processes or from meteorological events must be removed or dried.

Steel surfaces where structural bonding is required must be sandblasted according to SSPC-SP10 to the Sa21/2 grade, excluding objects whose profile is already suitable, for example screws, studs, etc.

Product preparation

Two-component product to be mixed accurately at the moment of use with a low-speed helical agitator. Mix component B with component A for a few minutes until a homogeneous mass free of lumps and with uniform color is obtained. GP2 Avoid partial mixing which cannot guarantee the correct mixing ratio. Application MASILEX GP2 must be applied by trowel or by injection. Application by re-casting: impregnate the support with a brush, taking care to allow the product to penetrate deeply into any porous areas. Spray laying is possible using specific equipment. Cast the concrete while MASILEX GP2 is still sticky. If the material loses its surface stickiness, it is necessary to apply another layer of product before casting. Application by injection: it can be applied to seal small cracks with a thickness greater than 1 mm. For this application the product must be injected with a low pressure pump. Application for anchors: applicable by pouring into holes made in the structure to make small anchoring of connectors on concrete, wood or masonry. In this case the circular crown must be at least 2 mm.



Safety

In the application of this product it is advisable to use goggles, rubber gloves and all the PPE required by the laws on the use of chemical substances.
For all the additional information consult the material safety data sheet of the product.

Chemical characteristics

Density	1,55 ± 0,05 kg/l EN ISO 2811-1
Colour	Grey
Pot life at 22°C	60 ± 10 minutes EN ISO 9514
Determination of maximum workable life depending on temperature	At +5°C: 150 minutes At +20°C: 100 minutes At +40°C: 40 minutes EN ISO 951
Mixing ratio By volume and by weight	1:1
Adhesion on wet concrete	>3,5 MPa EN 13578
Adhesion on sandblasted steel	>7 MPa ASTM D4541
Compressive strength	53 MPa EN 12190
Flexural strength	23 MPa EN 12190
Shear strength	>8 MPa EN 12615
Modulus of elasticity	2800 MPa UNI EN 13412
Adhesion concrete to concrete	>2,8 MPa EN 12636
Adhesion to concrete, water sensibility	>3,5 MPa EN 12636
Coefficient of thermal expansion	< 90 µm/m/°C UNI EN 1770
Durability	Pass EN 13733
Total shrinkage	< 0,1 % EN 12617-1

Curing

At 22°C, 50% R.H.	
-Open time	5 hours and 30 minutes
-Cured deeply	13 hours
-Complete curing	12 days

Tools cleaning

The tools must be cleaned with DILUENTE after use.

Storage

The product in the original sealed packaging, stored in a dry and sheltered place at a temperature comprised between +5°C and +35°C, is preserved for 12 months.

Packing

2 kg
4 kg

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

Trademark

PRIMAX[®] 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 MASILEX GP2 is MADE IN ITALY.