

STARCEMENT 385

TWO-COMPONENT EPOXY ADHESIVE AND SEALANT GROUT WITH HIGH ADHESION ON CONCRETE AND OTHER MATERIALS FOR BONDING AND HIGH RESISTANCE REPAIRS



CHARACTERISTICS

Excellent mechanical characteristics.

Very high **thixotropy** (applicable to thicknesses over 3 cm).

Soft and **creamy** texture.

Ease of application.

Available 1:1 by weight and volume.

Base and hardener in contrasting colour.

Ability to **adhere** and harden even in the presence of adverse **humidity** conditions.

Good chemical **resistance**.

Suitable for structures permanently immersed in water.

Contributes to obtaining credits for **LEED** certification.

It meets the requirements of the **1504-2** standard for structural bonding products.

APPLICATION TEMPERATURE

Applicable **from 0°C to +40°C** on the substrate.

OPERATING TEMPERATURE

Operating temperature from **-30°C to +85°C**.

APPLICATION FIELDS

- **Filling, grouting** and **sealing** cracks, holes and other discontinuities in concrete works.
- **Levelling** and **repairing** of concrete substrates.
- **Bonding** concrete-concrete, marble, stone, wood, neoprene, and other materials (**bars, fibres and sheets**).

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SUBSTRATE PREPARATION

- Before treating any surfaces, it is important to ensure that they are in good condition, free from dust, dirt, oil, grease, and other foreign substances that may affect the treatment. In the case of **cement substrates**, it is necessary to prepare the surface mechanically and ensure that it has a surface resistance to tearing greater than 1.5 MPA, which can be measured using the appropriate instruments.
- For **ceramic substrates** or old resinous coatings, it is also necessary to prepare the surface mechanically and check that they are correctly adhered to the substrate and free from any traces of pollutants.
- If bonding is required on steel surfaces, they should be blasted to Sa 2 ½ grade, except in the case of bonded bars, studs, and tie rods. Foils and other sheet materials should have a rough surface that allows and promotes the bonding process.adhesion of **STARCEMENT 385**.

It is important to roughen the surface before laying the coating. The method of mechanical preparation to be used (such as sandblasting, sanding, smoothing, shot peening or milling) should be chosen based on the substrate conditions and the type of coating to be applied.

PRODUCT PREPARATION

Two-component product to be mixed thoroughly before use with a low-speed helical mechanical stirrer, operating as follows:

- Add component B with component A and mix until completely homogenized.

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PRODUCT APPLICATION

STARCEMENT 385 can be applied by:

- Trowel

WARNINGS AND PRECAUTIONS

- A perfect seal is not guaranteed if used to grout tiles with wet edges or dirty edges with cement, dust, oil, grease, etc.
- The product must **not be diluted** with water or any solvent to improve its workability
- The **packages are pre-measured** and it is not possible to make pre-mixing errors. It's important not to mix the two components by sight, as this could negatively impact the hardening process.

SAFETY AND CLEANLINESS

When applying these products, it is recommended to use goggles, masks and rubber gloves and all the PPE required by current regulations.

Clean the tools thoroughly after use with **DILUENTE 21**.

For more information regarding the precautions for use, please refer to the safety data sheet.



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TECHNICAL DATA		
Colour		Grey
Specific weight	UNI EN ISO 2811-1	1.55 ± 0.05 Kg/l
Mix ratio		1:1 in weight and volume
Pot life 22°C	UNI EN ISO 9514	60 ± 10 minutes 50 minutes (1000 g) 20 minutes (5 Kg)
Calculation of maximum time of use in relation to temperature		5°C, 150 ± 20 minutes 20°C, 100 ± 15 minutes 40°C, 40 ± 7 minutes
Curing at 22°C, 50% R.H.		- track free: 5 hours - fully cured: 13 hours - fully cured: 10 days
Compression strength	UNI EN 12190	53 ± 1 MPa
Bending resistance	UNI EN 12190	23 ± 1 MPa
Elastic modulus Method 1	UNI EN 13412	2800 MPa
Shear resistance	UNI EN 12615	> 8 MPa
Durability	UNI EN 13733	Passes
Linear shrinkage	UNI EN 12617-1	< 0.1%
Linear thermal dilation factor	EN 1770	$a_m < 90 \mu\text{m/m}\cdot^\circ\text{C}$
Concrete to concrete bond	UNI EN 12636	> 2.8 MPa
Concrete bond, water sensitivity	UNI EN 12636	> 3.5 MPa
Adhesion to green concrete	EN 13578	> 3.5 MPa
Adhesion to sandblasted steel	ASTM D 4541	> 7 MPa
Storage		The product in its original sealed packaging kept in a dry and protected place at temperatures between +5°C and +35°C will keep for 12 months.

The data and instructions given in this sheet, based on the best practical and laboratory experiences, are to be considered in any case indicative. Considering the different conditions of use, and the intervention of factors independent of MPM (support, environmental conditions, technical laying direction, etc.) whoever intends to use it is required to establish whether or not the product is suitable for use. Our warranty obligation is limited to the quality and constancy of the finished product for the above data, only for technical sheets accompanied by stamp and countersignature by our delegated personnel. site. Furthermore, the customer is required to verify that these values are valid for their relevant batch of product and are not superseded and/replaced by subsequent editions and/or new formulations. The data contained may vary at any time without prior notice by MPM.