

MATERIA POXY data sheet

Decorative epoxy filler for grouting ceramic and glass materials. Ideal for mosaic grouting.

Technical characteristics

Filler consisting of two components which, mixed at the time of use, gives rise to a mixture which is easily workable and can be cleaned with water only immediately after laying.

- Correctly applied, it provides a completely smooth finish with translucent effect, is non-absorbent, easy to clean and therefore extremely hygienic.
- Drying takes place without shrinkage and therefore without cracks or fissures, in a time that varies depending on the ambient temperature.
- The grouting is resistant to attack by chemicals and the colour remains unchanged over time.
- It creates a translucent and highly decorative chromatic effect.
- It can also be used for bonding ceramics and glass with high mechanical and chemical resistance.

Classification according to EN 2004, class R2T.

Classification according to EN 13888, class RG.

Fields of application

- Grouting of high decorative value finishes.
- Decorative grouting resistant to aggressive chemicals for ceramic floors and wall tiles.
- Application and grouting in saunas and wellness centres.
- Quick drying and chemical resistant application of ceramic tiles of all types.
- Gluing and grouting in pools with thermal or brackish water.
- Gluing of tiles and mosaics in fibreglass pools. Gluing on PVC.

Important notices

- Do not use for elastic expansion joints or those subject to movement.
- Do not use for grouting ceramic floors and walls subject to attack by oleic acid (oil, salami factories).
- Do not apply on tiles with wet, dusty, oily or greasy edges.
- Do not use for grouting terracotta tiles or those with absorbent surface to avoid difficulty in cleaning.
- Before grouting porcelain stoneware (also polished) and stone materials, perform some preliminary tests.
- Do not use for grouting ceramic tiles in tanks containing drinking water.
- Do not add water or any other product to MATERIA POXY and keep to the ready-mixed mixing ratios.
- Use the product at temperatures between +10°C and +30°C.
- If it is necessary to remove hardened MATERIA POXY grouting use an industrial - blower.

Preparation of the substrate

Before applying MATERIA POXY ensure that the joints are perfectly clean, dry and free from oil, grease and paint. Before grouting, it is essential that the tile laying mortar is dry and has no residual moisture.

Preparation of the mixture

Pour the hardener (component B) into the container of component A and mix thoroughly until a homogeneous paste is achieved, preferably using a low speed mechanical mixer

Application of the mixture as grouting material

MATERIA POXY is applied in joints with a flexible steel or stiff rubber spatula, taking care to fill the entire volume of the joint. Remove excess sealant with a rigid rubber spatula diagonally. The ambient temperature affects both the drying time and the time to wait before subjecting the sealant to chemical attack. Use at temperatures below 10°C is not recommended because application would be very difficult. At the optimal temperature of +20°C the mixture is soft and easily workable. The hardening process starts after about 40 minutes and the floor can be walked on after 12-15 hours. Resistance to chemicals is obtained after 3/4 days. With MATERIA POXY cleaning must be carried out while "wet" within 30 minutes of application, emulsifying with water and an abrasive sponge, rubbing until complete removal of residues, taking care not to empty the joints (replace the sponge when too impregnated with resin). The part emulsified in water can be collected with a rubber squeegee, taking care not to wet the joints still to be grouted, and can be sucked up with an aspirator for liquids. Final cleaning can be carried out with water and alcohol at the start of hardening and before this is complete. MATERIA POXY cannot be cleaned once hardened, if not mechanically with serious risk to the surface of the tiles.

Application of the mixture as an adhesive

Mix the MATERIA POXY as described earlier, and spread it on the support with a notched spatula. Then lay the materials to be glued, applying enough pressure so as to ensure complete wetting of the surfaces in contact.

Rules to be adopted during application and laying

ADEPOXY ARREDO may cause skin irritation. It is recommended to use gloves and goggles in all stages of preparation and use. When application takes place indoors, create aeration. In case of contact with the eyes, rinse thoroughly with water and consult a doctor. CONSULT THE SAFETY DATA SHEET.

Technical Data (at +23°C and 50% R.H.)

	<u>Comp. A</u>	<u>Comp. B</u>
<u>Colour</u>	<u>various</u>	<u>yellow</u>
<u>brown</u>		
<u>Density</u>	<u>1.64 g/cm³</u>	<u>1.06g/cm³</u>
<u>Solid residue</u>	<u>100%</u>	<u>100%</u>

Brookfield viscosity (mPa.s) 550.000 22 000

Store at a temperatures exceeding +10°C 24 months in original package.
AVOID FREEZING

Safety irritating corrosive

Check the information on the packaging and on the safety data sheet.

Flammability no no
Customs item 3506 91 00

Application Data

Mixture ratio 9 :1
Mixture consistency smooth paste
Mixture density 1.55 g/cm³
Duration of mixture 45 minutes
Temperature of application between +12°C and +30°C
Open time 30 minutes
Registration time 60 minutes
Transitability after 24 hours
In service after 4 days
Final hardening after 15 days

Final Performance

Initial adhesion 25.0 N/mm²
Adhesion after immersion in water 23.0 N/mm²
Adhesion after thermal shock 25.0 N/mm²
Resistance to compression 50 N/mm²
Resistance to flection 31 N/mm²
Resistance to abrasion 147 (loss in mm³)
Shrinkage (mm/ml) 0.80
Water absorption 0.05 g
Resistance to humidity excellent
Resistance to ageing excellent
Resistance to solvents and oils very good
Resistance to alkalis and acids excellent
Temperature of operation between -20°C and +100°C

Consumption (Kg/m²)

"MATERIA POXY" CONSUMPTION TABLE (kg/m ²)		
FORMAT (cm), thickness mm	JOINT WIDTH (mm)	
	2	3

180 X 80	0.1	0.1
180 X 40	0.1	0.15
120 X 120	0.1	0.1
120 X 60	0.1	0.15
120 X 30	0.2	0.25
120 X 20	0.2	0.28
120 X 15	0.25	0.4
80 X 40	0.15	0.2
80 X 80	0.1	0.15
80 X 20	0.2	0.3
60 X 60	0.15	0.25
60 X 30	0.2	0.28
60 X 15	0.3	0.4
60 X 10	0.4	0.6
40 X 40	0.2	0.28
40 X 21	0.25	0.35
30 X 30	0.25	0.35
15.2 X 15.2	0.5	0.65

"MATERIA POXY" for mosaic CONSUMPTION TABLE (kg/m ²)	
FORMAT (cm) thickness (mm) in brackets	JOINT WIDTH 3 mm
1.8 X 1.8 (4.5)	2.7
5 X 5 (10)	2
22.5 X 25 (4.5)	1.2

MATERIA POXY packaging: 3 Kg drum (Comp. A: 2.7 Kg - Comp. B: 0.3 Kg)