

EPOJOINT CERAMICA

CHEMICALLY-RESISTANT, THREE-COMPONENT EPOXY SEALANT FOR SEALING GROUT LINES AND JOINTS BETWEEN TILES AND CERAMIC COATINGS



EPOJOINT CERAMICA is a three-component product based on epoxy resins for sealing the joints between stoneware, ceramic and klinker tiles, etc. It is easy to remove with water.

Thanks to its specific antacid formulation, **EPOJOINT CERAMICA** is particularly suitable for grouting floors in the food industry.

BENEFITS

The particular chemical formulation of **EPOJOINT CERAMICA** makes it a highly professional product with the following features:

- ✓ **EXCELLENT MECHANICAL, ABRASION AND TRAFFIC RESISTANCE:** **EPOJOINT CERAMICA** is featured by extreme hardness, which provides greater load transfer capacity and better edge protection between joint and coating, including traffic of forklift trucks too.
- ✓ **NO CRACKING:** the specific formulation of **EPOJOINT CERAMICA** ensures neither shrinkage of fresh or cured concrete nor cracking.
- ✓ **EXCELLENT ADHESION TO THE CERAMIC COATING:** **EPOJOINT CERAMICA** features a high adhesion to tiles and ceramic coatings in general, a characteristic that allows waterproof and durable grout sealing.
- ✓ **GOOD CHEMICAL AND WASHING RESISTANCE:** **EPOJOINT CERAMICA** is waterproof, resistant to the chemical aggression of lubricating oils, industrial detergents and common aggressive substances.
- ✓ **EASY TO APPLY AND CLEAN:** the consistency of the resin's "soft paste" makes **EPOJOINT CERAMICA** an easy-to-apply product, used to carry out precise and fast sealing. It may be cleaned quickly with water.

WHERE TO USE

EPOJOINT CERAMICA is a semi-rigid sealant particularly suitable for the "grouting" of both floor and wall tiles in industrial, commercial and residential buildings.

Typical applications:

- food industries such as dairy factories, central dairies, slaughterhouses, cured meat factories, etc.;
- pools and tanks for the collection of industrial waters, antacid ceramic flooring;
- precast concrete elements, etc.



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APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Carefully clean the surfaces of the joints between the tiles and, before applying **EPOJOINT CERAMICA**, wait until the tile laying mortar has sufficiently hardened.

PRODUCT MIXING

EPOJOINT CERAMICA is made up of three components. Pour the entire component B into the container of component A and carefully mix with a low-speed drill for 3÷4 minutes till getting a well-blended mix. Then gradually add component C and continue mixing for another 3-4 minutes.

SEALANT APPLICATION

Apply **EPOJOINT CERAMICA** by spatula and, after sealing the grout lines, clean the tiles from excess product with water and hard sponge or abrasive disc. The particular features of **EPOJOINT CERAMICA** permit cleaning the excess product within 1 hour after application. Once hardened, **EPOJOINT CERAMICA** is no longer removable with water. The product may be used not only as a sealant, but also as an adhesive. After mixing, for this purpose it is applied by notched trowel with the addition of the materials to be bonded under light pressure. It is not recommended to apply the product at a temperature below 10°C. Do not add water or solvents during the preparation or application of the product.

PRECAUTIONS

- Store the material at room temperature about 24 hours before laying.
- Use gloves and safety glasses while mixing the product, laying and cleaning the tools.
- For further information refer to the relative safety data sheet.
- For cleaning the tools use DILUENTE ECO.



PRECAUTIONS IN HOT CLIMATES

- ▶ In summer it is recommended to mix small amounts of product in containers having the widest exposed surface and work quickly.



PRECAUTIONS IN COLD CLIMATES

- ▶ In winter, on the contrary, the resin hardening is delayed, thus it is recommended to work with less exposed surfaces in order to take advantage of the large-scale effect.

PACKAGING AND STORAGE

EPOJOINT CERAMICA is available in pails:

- 1 kg + 1 kg + 5 kg = (A+B+C) **7 kg**
- 2 kg + 2 kg + 10 kg = (A+B+C) **14 kg**

If the product is stored properly in its original packaging, indoors in a dry location, it maintains its original features for one year.



PRODUCT CHARACTERISTICS

APPEARANCE	Comp.A: liquid - Comp. B: colored paste - Comp.C: Powder
AVAILABLE COLOURS	Light ivory (Similar to RAL 1013) - Grey (similar to RAL 7035) Others on demand
DENSITY (+20°C) - UNI EN ISO 2811	Comp. A: about 1.12 kg/l Comp. B: about 1.53 kg/l
VISCOSITY - UNI EN ISO 3219	Comp. A: 500-900 mPa·s Comp. B: 24-31 Pa·s
STORAGE PERIOD	24 months

APPLICATION DATA +23°C and 50% R.H.

APPEARANCE OF MIX	Soft semi-fluid paste
SPECIFIC GRAVITY - UNI EN ISO 2811	Comp. A+B+C: 1.82 kg/l
CONSISTENCY AT THE FLOW TABLE TEST - EN 1015-3	145 mm
APPLICATION TEMPERATURE RANGE	from +10°C to +35°C
WORKABILITY	45 ÷ 60 minutes
WALKABILITY	approx. 24 hours
COMPLETE CURE TIME - COMMISSIONING:	7 days
CONSUMPTION	Depending on coating size and grout line width - see Table 1 indicative consumptions

FINAL PERFORMANCE

BULK VOLUME	UNI EN 12190	1.81 kg/l
COMPRESSIVE STRENGTH	UNI EN 12808-3	60 MPa
FLEXURAL-TENSILE STRENGTH	UNI EN 12808-3	32 MPa
LINEAR SHRINKAGE	UNI EN 12808-4	< 0,5 mm/m
WATER ABSORPTION	UNI EN 12808-5	0.02 g

TECHNICAL SPECIFICATIONS



For the sealing operations of grouts and joints of ceramic tiles, the chemically-resistant three-component epoxy sealant **EPOJOINT CERAMICA** must be used. The product must be used according to the instructions of the manufacturer, DRACO Italiana S.p.A., which will provide technical assistance on request with skilled personnel.

TAB.1 - INDICATIVE CONSUMPTIONS AT 20°C AND 65% R.H.

TYPE	FORMAT (cm)	THICKNESS (mm)	GROUT (mm)	CONSUMPTION (kg/m ²)
Klinker	12 x 24	10	3	approx. 0.68
			5	approx. 1.13
	18	15	3	approx. 1.22
			5	approx. 2.04
	30 x 30	15	5	approx. 0.91
			10	approx. 1.81
Tiles	10 x 10	10	3	approx. 1.09
			5	approx. 1.81
	10 x 20	10	3	approx. 0.81
			5	approx. 1.36
	20 x 20	14	3	approx. 0.76
			5	approx. 1.27
	15 x 30	12	10	approx. 2.17
	30 x 30	9	5	approx. 0.54
	30 x 60	10	5	approx. 0.45

Legal notice - SLCMP version dated 01.03.2017

In the technical specifications herein, Draco Italiana s.p.a. used the indicators therein specified, with the relevant standards.

Please check if this Sheet and the figures therein contained apply to the product batch you are interested in or if they have been overridden by any later release. If in doubt, check whether this Sheet matches the one applicable at the time of finalising the sales agreement, at www.draco-edilizia.it, and/or contact our Engineering Department.

No advice provided by our staff, either verbally or in writing at your request, about the potential applications of the Products shall be binding under the sales agreement or shall be considered an integral part of the agreement. Such advice is based on our experience and on the best available practical and/or scientific knowledge; as such, it shall not be binding or conditional on the buyer or user. Please try our products first to find out whether they are fit for your intended use or application; in any case, you shall be solely responsible for your choice.

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CHEMICAL STRENGTH OF EPOJOINT CERAMICA

SUBSTANCE	Accidental contact (30 minutes)	Occasional contact (24 hours)	Continuous contact (7 days)
Milk	+	+	+
Wine	+	+	+
Ethanol	+	+	-
Potassium permanganate 1%	+	+	+
Potassium permanganate 10%	+	+	-
Tannic acid 50%	+	+	+
Tartaric acid 50%	+	+	+
Phosphoric acid 80%	+	+	-
Sulphuric acid 20%	+	+	+
Oxalic acid 10%	+	+	+
Lactic acid 5%	+	+	+
Acetic acid 5%	+	+	+
Sodium hydroxide 50%	+	+	+
Sodium hydroxide saturated solution	+	+	+
Benzoic acid	+	+	+
Distilled water	+	+	+
Mineral water	+	+	+
Salt water	+	+	+
Fruit juice	+	+	-
Methanol	+	-	-
MEK	+	-	-
Chloroform	-	-	-
Toluene	+	-	-
Xylene	+	-	-

Legenda: + Recommended | - Not recommended | * *The material will be stained by exposure*

The chemical resistance depends on the time of exposure to the substance:

- Laboratory table: extremely limited contact due to immediate surface cleaning.
- Intermittent exposure: limited contact due to frequent cleaning throughout the day, as is the case, for example, of catering kitchens.
- Constant exposure: prolonged contact due to not frequent cleaning, as is the case, for example, of food processing industrial plants. The chemical resistance is determined as per ASTM C267-1982 standard.

NB: for intermittent exposure to temperatures above +32°C, consider the resistance to constant exposure.