

	FLORIM CERAMICHE S.p.A.	<i>Edition no. 0</i> <i>Revision date: 15.01.2018</i> <i>Printed on: 15.01.2018</i> <i>Page: 1/8</i>
	<b>CEDIT EPO SEALANT</b>	

### Technical Datasheet

## CEDIT EPO SEALANT

Very free-flowing, easily cleaned, waterproof, stain-proof grout for joints from 0 to 10 mm, with high chemical and mechanical strength; guarantees the continuity of ceramic surfaces.

## Fields of use

### Intended use

Grout with high chemical and mechanical strength, particularly hard and waterproof.

Materials for grouting:

- porcelain stoneware, slim-thickness slabs, ceramic tiles, clinker, and glass and ceramic mosaic, of all types and sizes
- composite materials

Indoor floors and walls, for residential, commercial and industrial use and for urban furnishing, exposed to permanent or occasional contact with chemicals, in heavily used locations, swimming-pools, spa pools and fountains, and floors with underfloor heating, also in zones subject to thermal shock and frost.

### Do not use

In floors with porous surfaces and which require chemical resistances higher than or different to those specified in the chemical resistance table, for filling elastic expansion or subdivision joints, or on substrates which are not perfectly dry and are subject to rising damp.

## Instructions for use

### Substrate preparation

Before grouting, check that the material has been installed correctly and that the tiles are securely anchored to the screed. Substrates must be perfectly dry.

Perform grouting, complying with the time intervals specified on the technical datasheet of the adhesive used. If the material has been installed with a cement mortar, wait at least 7/14 days depending on the screed thickness, the weather conditions/environmental conditions in the room, and the porosity of the covering and the substrate.

Any rising damp or residual humidity may generate vapour pressure capable of causing the tiles to detach, since the grout and the tiles themselves are completely non-absorbent.

Joints must be clean, with all adhesive residues (even if set) removed and must be of uniform depth, equal to the entire thickness of the covering, to ensure the maximum chemical resistance.

All dust and loose parts must also be removed from the joints by thorough cleaning with an electric vacuum cleaner.

The surface of the covering for grouting must be dry and free from dust or construction site dirt; any protective wax residues must first be removed with specific products.

Before starting grouting, check the cleanability of the covering; there could be problems if the surface is highly porous or microporous. It is best to perform a test in advance on a tile which has not been installed or a small, out-of-sight area. In these cases, a protective coating of a specific product should be applied to the covering before grouting, taking care not to apply it in the joints.

### Preparation

EPO SEALANT is prepared by mixing component A with component B in the pre-measured ratio of 2.82 : 0.18 provided by the packs, using a spiral stirrer working from the bottom upward at low rpm ( $\approx 400$ /min.).

Pour component B into the tub of component A, taking care to mix the two components evenly to obtain a mix with uniform consistency and colour. A quantity of grout which can be used within 45 min. must be prepared at +23 °C 50% R.H.

Packs of EPO SEALANT must be stored at temperatures of  $\approx +20$  °C at least for the 2/3 days prior to use; higher temperatures will produce an excessively fluid mix which sets too quickly, while lower temperatures will make the mix stiffer to spread, with slower setting, which will not occur at all below +5 °C.

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**Application:** EPO SEALANT is applied evenly across the surface of the covering with a hard rubber trowel. Apply the sealant to the entire surface, completely filling the joints, working diagonally across the tiles. If the product is only applied along the joints, a test should be performed in advance on a tile which has not been installed, to check the cleanability of the surface.

Remove most of the grout residues immediately with the trowel, leaving only a thin film on the tiles.

**Cleaning:** start to clean the covering when the grout is still fresh. For definitive cleaning of the surface, use a (preferably cellulose) sponge dipped in water; the sponge should be large and thick so that it wipes the surface without gouging material from the joints. Sponge in a circular direction to re-emulsify the film of grout on the tiles and finish the surface of the joint. Specific, highly dispersible polymers ensure that grout residues can be removed with only a small amount of water.

The use of excessive amounts of water when cleaning will adversely affect final chemical resistance values. It is important to rinse the sponge often and keep the water clean at all times, to use the special water trays with cleaning rollers and grilles, and to replace the sponge or felt if it becomes impregnated with the grout.

Complete cleaning working diagonally across the tiles to avoid gouging material from the joints.

Drying the freshly-cleaned surface with a cloth guarantees the removal of any remaining resin smears.

Once the grout has set, any smears can be removed with an epoxy residue cleaner, diluted depending on the cleaning times and the amount of grout for removal.

Do not walk on floors when still damp to avoid leaving dirt residues.

## Technical Data

Appearance Component A coloured paste / Component B pale yellow liquid

Specific weight Component A  $\approx 1.77 \text{ kg/dm}^3$  / Component B  $\approx 1.01 \text{ kg/dm}^3$  UEAtc

Viscosity  $\approx 100000 \text{ mPa} \cdot \text{s}$ , rotor 93 RPM 10 Brookfield method

Mineralogical nature inert crystalline silicate (Component A)

Chemical nature epoxy resin (Component A) / polyamine (Component B)

Particle size range  $\approx 0 - 250 \mu\text{m}$

Storage  $\approx 24$  months in the original pack

Warnings: protect from frost, avoid direct sunlight and exposure to heat

Single pack Component A 2.82 kg / Component B 0.18 kg

Mixing ratio Component A : Component B = 2.82 : 0.18

Specific weight of mix  $\approx 1.43 \text{ kg/dm}^3$

Pot life at  $+23 \text{ }^\circ\text{C} \geq 45 \text{ min}$ .

Application temperature range from  $+5^\circ\text{C}$  to  $+30 \text{ }^\circ\text{C}$

Joint width from 0 to 10 mm

Walk-over time  $\approx 24 \text{ h}$

Normal use  $\approx 3$  days (mechanical strength) /  $\approx 7$  days (chemical resistance)

Coverage: see coverage table

INDOOR AIR QUALITY (IAQ) VOC - VOLATILE ORGANIC COMPOUND EMISSIONS

Compliant with EC 1-R plus GEV-Emicode Cert. GEV 8520/11.01.02

### HIGH-TECH

Abrasion resistance  $\approx 174 \text{ mm}^3$  EN 12808-2

Water absorption after 240 min.  $\approx 0.04 \text{ g}$  EN 12808-5

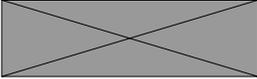
Temperature when in use from  $-40^\circ\text{C}$  to  $+80 \text{ }^\circ\text{C}$

### LEED®

LEED® Points Contribution \* LEED®

MR Credit 5 Regional Materials up to 2 GBC Italy

QI Credit 4.1 Low Emission Materials up to 1 GBC Italy

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## Safety Warnings

### - Product for professional use

- comply with the national laws and regulations
- work at temperatures between +5°C and +30°C
- use packs stored at +20 °C for 2/3 days prior to use
- comply with the mixing ratio of 2.82 : 0.18. For partial mixes, weight the 2 components precisely
- workability times vary considerably depending on environmental conditions and tile temperature
- do not walk on floors when still damp to avoid leaving dirt residues
- do not install on substrates subject to rising damp or which are not perfectly dry
- request the safety datasheet if necessary