Pavex 3C Mortar

Leveling epoxy mortar for anchoring and filling under plates

Solvent-free 3-component epoxy grout mortar for screeds, leveling, filling and anchoring.

Technical information			
Resistance to compression	28 days	≥120 N/mm²	(ASTM C 579 – Method B)
Compressive modulus of elasticity	1 day 7 days	≥20 GPa ≥23 GPa	(BS 6319: Part 6 - Compression Blossom Module)
Flexural strength	28 days	≥10 N/mm²	(ASTM C 293, 23°C)
Tensile strength	1 day 7 days	≥15 N/mm² ≥17 N/mm²	(BS 6319: Part 7)
Adhesion and tensile strength	Concrete 1 and 7 days	≥3 N/mm2 (concrete fails)	(BS EN 1542 :1999)

**All technical information about the product indicated in this sheet is based on tests carried out in our laboratory. Data measured on actual site may vary due to circumstances beyond our control.*

Product information	
Mortar base	Epoxidic
Presentation	Pack (A+B+C) of 30 kg (A=4 kg / B= 2 kg / C= 24 kg)
Application temperatures	5 -30ºC and HR <75%
Mass density	(A+B+C) 2,4 kg/l at 25ºC
Viscosity at 25ºC	(A +B) 70-80 U./KREBS
Components (A+B+C) mixing	Self-leveling epoxy mortar
Consumption	Depending on support
Pot-life (50% U.R.)	10°C: > 3 hours 25°C: >2 hours 35°C: >75 minutes
Colour	Component A: Amber liquid Component B: Amber liquid Component C: Grey 3 components mixed: Grey
Conservation	1 year for components A and B (in original container, unopened). 6 months for component C (in original container, unopened). Store in a dry place at a temperature between 5ºC - 35ºC, sheltered from the weather and humidity.

Resistance table

Dry heat temperature:	130ºC	
Humid heat temperature:	75ºC	
Saulty fog	Resistance	>1000 hours
Diluted acids	Resistance	>1 year
Diluted alkalis	Resistance	>1 year
Marine environment	Resistance	>3 years
Industrial environment	Resistance	>3 years
Water immersion	Resistance	>5 years
Salt water immersion	Resistance	>5 years
Resist to	-20ºC	

Execution conditions

- On a completely dry and moisture-free surface, clean and free of greases and other materials.
- Do not apply with relative humidity greater than 85% and ambient temperature below 5ºC.
- Maximum support humidity 4%.
- Apply with good air renewal, 100% solvent-free solids.
- On completely set cement (≥ 28 days).
- On smooth, non-absorbent surfaces, open pore by mechanical means (abrasive blasting, fratasing, abrasive disc) accompanied by deep aspiration.
- If necessary, to ensure perfect adhesion, previously apply a layer of **Primer Pavex-2C** primer with moisture support <4%.
- Increases hardness and resistance against abrasion.

Preparation and mixing

- Mix the components A + B with a whisk at low revolutions for at least 2 minutes until a uniform mixture is obtained, then add the component C and mix until a homogeneous mortar is achieved.
- Mix life: ±15 minutes
- Drying at and relative humidity 60%20ºC
  - Drying to the touch: ≥60 min.
  - Total drying: 8-12 hours
  - Total polymerization: ≥7 days
- Final appearance: Mortar

**These times are set at 20ºC and may vary depending on the ambient temperature.*

Performances

- Composition: Bicomponent Epoxy Resin + Aggregate of selected granulometry.
- Mass density (Resin + aggregate): 2.4 Kg/l
- Finished appearance: matte
- Viscosity: 70-80 U. /KREBS
- Compressive strength after 7 days as epoxy mortar (mixture A+B + aggregate): ≥55 N/mm2

**These results are from standard tests and may vary depending on the installation conditions.*

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Application

1.Before landfilling, she must calculate in detail the expected material consumption including waste. Make sure you have all the necessary material to avoid situations of flow cut at the time of pouring the material.

2. Remove dirt or any contaminants from the base material by making the necessary repairs. Make sure that all traces of corrosion have been removed from the motherboard. Identify high points on the motherboard and drill to prevent air entrapment. To level the plates, use a small screw or threaded bolt, this provides a good fit before, during and after pouring. Leveling wedges can also be used but must be removed after application.

3. Bolts and screw holes should be completely clean, dry and tight enough. Apply the grout for anchors in the holes and immediately place the anchors with the application of a slight twisting movement until the required depth is reached and part of the resin protrudes slightly above the ground line. Make sure the screws are straight and centered.

4. The formwork to shape the mortar around the base plate must be watertight and very well aligned. The construction management will decide in all cases the slack around the plate to favor the distribution of loads. The height of the formwork will depend on the pouring to be made. It is advisable to use release agent type L-2 to prevent the mortar from adhering to the formwork and to facilitate its removal.

5. Prevent the mortar from remaining at rest for more than 15 minutes. By means of an opening or mailbox of the formwork pour the grout continuously checking that the material flows correctly under the plate. Pour only from one side to avoid trapping air. It is not advisable to vibrate or shake the grout when it is in its plastic state. For large surfaces, the use of a grout pump can be considered. The process of mixing materials and pouring must be continuous avoiding any interruption during the process.

6. If the thickness of the spill exceeds 10 cm, adequate precautions should be taken against thermal shock. These can include protection against water and rain for the first 24 hours, maintaining the formwork for at least 24 hours, and providing a reinforcing mesh to ensure an even distribution of the heat generated.

7. Clean all application tools and equipment with a universal solvent, immediately after use. Hardened and/or cured material can only be removed mechanically.

Packaging

Pack (A+B+C) of 30 kg (A=4 kg / B= 2 kg / C= 24 kg)

Colour

Component A: Amber liquid
Component B: Amber liquid
Component C: Grey
3 components mixed: Grey

Consumption

Depending on support

Conservation

1 year for components A and B (in original container, unopened)
6 months for component C (in original container, unopened).

Store in a dry place at a temperature between 5ºC - 35ºC, sheltered from the weather and humidity.

⚠ IMPORTANT

The observations and prescriptions of this data sheet, although corresponding to our best experience, should be considered, in any case, purely indicative, and should be tested by exhaustive practical applications; therefore, before using the product, the user must establish whether or not it is suitable for the intended use, and assumes all liability that may arise from its use. Once the product has been handled or applied, the manufacturer shall not assume any claim whatsoever, nor any liability as to the manner, mode and conditions of application.