

CODE: EP-322

PRODUCT NAME:

Solvent - Free, Heavy Duty Epoxy Mortar

(Three comp.)

DESCRIPTION:

EP-322 is a three component solvent -free heavy duty epoxy grout suitable for vertical and horizontal repair of damaged concrete surfaces in a wide variety of industrial situations, including areas where the reinforcing bar is exposed.

EP-322 may be applied at 40mm thickness in areas which will subsequently be exposed to heavy loading and abrasion on primed concrete surface and its suitable topcoat is EP- 360. This product is also suitable for forming corner fillets and other special shapes in concrete structures.

EP-322 is a solvent-free epoxy based screed of high strength combined with excellent chemical resistance

TECHNICAL DATA:

Binder	Epoxy polyamine
Pigment	Chemical resistant pigment
Finish	Matt
Shade	Grey , brown
Specific gravity after mixing	2.2 ±0.1 Kg/Lit
Volume solid	100 %
Flash point	80 °C
Typical dry film thickness	2mm-10cm
Number of coat	One or more
Substrate	Primed concrete
Application method	Trowel
Mixing ratio by weight	Base :12.5 parts Powder: 80parts Hardener : 7.5 parts
Theoretical spreading rate (at 3 mm)	0.3 M ² /Lit
Cleaner	T-C-200
Packing	Base : 6.25 kg Powder:40 Hardener :3.75 kg
Shelf life	12 Months

Mechanical Properties (After Full Curing)

Compressive strength	Aprox. 13000 psi
Flexural strength	Approx.4500 psi
Tensile Elongation	3-8%
Tensile strength	Approx.2400 psi
Adhesion to concrete	355 psi (Concrete Fails)

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Drying Time

Temp	Touch dry	Hard dry	Over coating		Full cure
			Min	Max	
15°C	9 hours	48 hours	32 hours	-	13 days
25°C	5 hours	36 hours	24 hours	-	7 days
40°C	3 hours	27 hours	18 hours	-	4 days

Note: Drying times are dependent on applied film thickness; all data in this catalogue are reported at recommended DFT.

Pot life

Temp. of paint	15°C	25°C	40°C
Pot life	80 minutes	40 minutes	20 minutes

Surface Preparation

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO8504:1992.

grease should be removed in accordance with SSPC-SP1 solvent cleaning

Oil or

Concrete Surfaces

Concrete should be cured for a minimum of 28 days prior to coating. The moisture content of the concrete should be below 6%. All surfaces should be cleaned and dry.

Primed surfaces

EP-322 can be applied over approved primers. The primer surface should be dry and free from all contamination, and EP-322 must be applied within the overcoating intervals specified.

Area of breakdown, damage, etc., should be prepared to the specified standard (eg. Sa 2 ½ (ISO 8501-1:1998), or SSPC-SP10, abrasive blasting, or SSPC-SP11, (hand/ power cleaning) and patch primed prior to the application of EP-322.

Surface preparation shall not take place in following conditions:

B-When the relative humidity greater than 85%.
 9C above the dew point.

A-At temperature below 5 °C.
 C-When the surface temperature is less than 3

D- Out side day light hours on exterior locations

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REPAIR:

- Damaged concrete must be cut back to sound material e.g. by use of pneumatic tools.
- All concrete contaminated with acids, chlorides, etc. must be remove.
- Repair layer must not be applied in thickness exceeding 12 Cm, but if thicker layers are required, then application may be built up layer by layer, leaving 1 hour between each coat.
- Remove dust, dirt and contamination before recoating.

Application Method

Material is supplied in three containers as a unit. Always mix a complete unit in the proportion supplied. Once the unit has been mixed it must be used within the working Pot life specified.

Like all high performance coating, this product must be applied as recommended to obtain the maximum protection for which this coating is formulated.

- Flush equipment with recommended cleaner before use.
- Stir pigmented base until homogenous.
- Add hardener to base in the proper mixing proportions, and continue stirring for 2 minutes.
- Add powder to the mix and stirring for 4 minutes.
- Since the pot life is limited and shortened by high temperatures, do not mix more material than will be used with in the pot life period.
- ***Do not thin for any reason.***
- EP-322 is applied by trowel, or wide putty knife, spreading and working it into cracks and voids.
- In hot climate, material temperature should be 20 to 25 °C prior to mixing; otherwise pot life becomes very short.
- Paint shall not be applied when wind speed is in excess of 7 m/s

HEALTH AND SAFETY:

This product is Flammable. Keep away from heat and open flame .Keep container closed .Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to the health:

- 1-Circlute adequate fresh air continuously during application and during.
- 2-Use fresh air masks and explosion proof equipment.
- 3- Prohibit all flames, sparks, welding and smoking.

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