Kemapoxy 150

High Mechanical and Chemical Resistance, Transparent Epoxy Coating & Mortars.

Description:

- **KEMAPOXY 150** is a two components, solvent free, non pigmented liquid epoxy resin
- It is used as a coating where outstanding chemical resistance and mechanical stresses are major requirements.
- It can also be mixed with considerable amounts of mineral aggregates to produce, non-shrink, multi - purpose epoxy mortar with high mechanical and chemical properties.
- It can be used in drinking - water tanks and food stores.
- Complies with ASTM C 881 & ES 1382.

Fields of Application:

- Protective coating for concrete floorings and wall surfaces subject to chemical attack and high mechanical stresses.
- Can be used as screed for industrial floors.
- Repairing mortar for concrete structure.
- Filling of concrete cracks.
- Grouting mortar under supports of machine and steel structures.
- Bonding mortar for most of the building materials and fixing dowels.

Advantages:

- High resistance against mechanical stresses and chemical effects.
- Ready to use after mixing the 2 components.
- Adding fillers to **KEMAPOXY 150,** enables producing variety of epoxy mortars in different consistencies according to the amount of added fillers.
- Anti fungus and anti bacteria.

Technical Data :(at 25 ºC)

Colour	Transparent
Solid content (by weight)	100 %
Density	1.11 ±0.02 kg/l
Mixing ratio A: B by weight	2: 1
Pot life	30 minutes (decreases at higher temperatures)
Initial setting time	8 hours
Final setting time	24 hours
Full hardness	7 days
Recoating time	18-24 hours
Min. application temperature	5°C
Temperature resistance	90° C (Wet) 140°C (dry)
Thinner	KEMSOLVE 3, KEMSOLVE 4 (5% when needed)
Mechanical properties for mortar (depends mainly on the mixing ratio between the epoxy resin and the filling material	
Density	1.8 – 2.1t/m^3
Compressive strength	500 - 1000 kg/cm^2
Flexural strength	200 - 400 kg/cm^2
Tensile strength	150 - 250 kg/cm^2
Bond strength	> concrete
Abrasion resistance (BOEME)	1 - 6cm^3/50cm^2
Temperature resistance	humid 90°C dry 140°C

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CMB INTERNATIONAL

Chemical Resistance : (Immersion time 7 days)

Sulphuric acid	50%	ex
Hydrochloric acid	20%	ex
	25%	g
Phosphoric acid	50%	g
Nitric acid	10%	ex
	20%	g
Acetic acid	5%	ex
	20%	g

Sodium hydroxide 50%		ex
Potassium hydroxide 50%		ex
Ammonium nitrate		ex
Fuels	Petrol	ex
	Benzin	g

ex: excellent (no softening + no bubbles + no change in colour)

g: good (no softening + no bubbles + slight change in colour and weight)

Rate of Consumption:

- 0.50 kg/m^2 for the primer coat.
- 0.25 - 0.4 kg/m^2/coat for the successive coats.
- 1.5kg/m^2/5mm thickness for topping mortars.

Directions for Use:

(A) SURFACE PREPARATION:

- The substrate must be capable of resisting the intended mechanical stresses (C28>250 kg/cm^2).
- The concrete surface must be dry (dampness not more than 4 %) . Free of dust and laitance, oil, grease and other impurities which can affect the adhesion.

(B) MIXING:

- Component B (hardener) should be poured into component A (resin) and mixed together using a suitable mechanical mixer for a period of 3 minutes. The velocity of the mixer must not exceed 300 r.p.m.
- In the case of mortar, the filling material is added to the mixture and mixed again for a period of 3 minutes.
- The mixture is then transferred to a larger clean vessel, all materials sticked to the walls of the original container must be scraped off with a knife and added and renewed stirring.

(C) MIXING RATIO OF THE FILLING MATERIALS:

- Filling materials should contain not less than 20 % fine granules (quartz powder).
- Mixing ratio of 1 : 2 to 1 : 4 is used for producing self levelling mortar.
- Mixing ratio of 1 : 5 to 1 : 10 is used for surface topping and repair mortars.
- It is recommended to prime the substrate with a layer of **KEMAPOXY 150** and the mortar to be laid while the primer is still wet, in the case of using high filling material content.
- Clean tools by **KEMSOLVE 1.**

Safety Precautions:

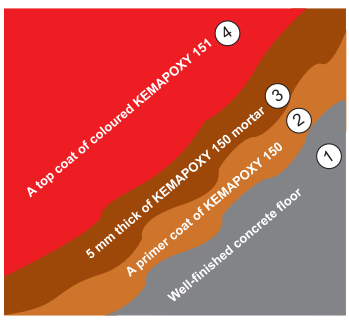
- Application should be carried out in well ventilated place.
- Gloves, protective clothing and eye goggles should be worn during application.
- Skin contaminations should be immediately cleaned with soap and plenty of water. Don't use solvent.
- If the material is splashed into the eyes, they should be immediately washed with water and then report to an eye specialist.
- Do not eat or smoke during application.

Storage:

- 2 years under suitable storage conditions and in closed containers.

Packages:

- Kits (A+B) 1 kg and 3kg .
- (Follow the mixing ratios - by weight-indicated on the package).



Flooring layers of KEMAPOXY 150 mortar

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