Kemapoxy 175 T

Extra - Ordinary Elastic Polyurethane-epoxy Tar System.

Description:

- **KEMAPOXY 17ST** is a two components system based on modified polyurethane epoxy tar and elastified hardener, with high solid content.
- Complies with ES 3303, ES 1382.

Fields of Use:

- Durable industrial flooring with very high resistance to abrasion and chemical attack.
- Screed flooring for steel and concrete bridges.
- Waterproofing membrane for concrete and steel structures with high resistance to chemical attack.
- Crack bridging coating to seal concrete surfaces in which cracks already appeared or in which cracking is to be expected.
- Final coating material for surfaces exposed to mechanical loads and chemical attack such as garages, side walks, platforms, roads, factories, stores ... etc .
- Interior epoxy coating for sanitary sewage installations.

Advantages:

- High resistance to chemicals and petroleum attacks.
- High resistance to mechanical stresses.
- Suitable for bridging of concrete cracks because of its high elasticity properties
- Suitable as final coats for the surfaces which are exposed to heavy and light traffic.
- Can be mixed with filling materials and used as final layers for steel and concrete bridge surfaces.
- Can be mixed with rubber fillers for the flooring of play grounds and courts.

Technical Data :(at 25 ºC)

Colour		Black
Solid content (by weight)		98 %
Density		1.13± 0.02kg/l
Mixing ratio A: B (by weight)		1 : 1
Pot life		60 minutes (decreases at higher temperatures)
Initial setting time		18 hours
Final setting time		72 hours
Full hardness		7 days
Recoating time		24 - 48 hours
Min application temperature		5°C
Elongation		138 %
Rate of use (theoretical)	for paint	300 gm/m^2/coat (250 µ)
	for mortar	see table in direction for use

Chemical Resistance : ASTM C 267

(Immersion time 7 days)

Sulphuric acid	50%	g
Hydrochloric acid	25%	g
Phosphoric acid	30%	ex
	50%	g
Nitric acid	5%	ex
	20%	g
Acetic acid	10%	ex
	20%	g

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

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

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

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Directions for Use:

A - Painting:

- The substrate must be dry, clean, free of oils, .. etc.
- The two components of **KEMAPOXY 175T** must be mixed thoroughly and applied in one or more coats using brush, roller or sprayer.
- Clean tools by **KEMSOLVE 1**

B- Polyurthane Epoxy tar mortar for screeding Metallic or concrete bridges:

- Steel surfaces should be sandblasted till removing rust and old layers completely and other impurities, to a min. Sa 2.5 according to ISO 8501
- Concrete surfaces should be dry, firm, even free from laitance, dirt, oil, grease and other impurities.
- Prime surfaces with 2-coats of zinc epoxy as Kemapoxy 131 (for steel surfaces) rate of 200 gm/m^2/coat and Kemapoxy 103T (fot concrete surfaces) rate of 200 gm/m^2/coat.
- Sprinkle the freshly second primer coat with fire dried quartz sand 0.2-0.7 mm (rate 1 kg/m^2).
- After well mixing the 2 components of **KEMAPOXY 175T** the mix should be poured in special mixer and filling granules should be added in the mixer according to the shown table and depending on required screed thickness.
- After laying mortar, especial granules - as in table - should be sprinkled on the fresh mortar then rolled with special steel roller.

Rate of use for KEMAPOXY 175 T mortar for steel and Concrete bridges:

Screed thickness	2-3 mm	>3 mm- 6 mm	>6mm-10mm
Ratio of KEMAPOXY 175T: fillers	1:1	1:1	1:1.5
Types of fillers	Graded quartz 0.7-1.2 mm	50% graded quartz 0.3-0.8 mm 50% bazalt granules 1-2 mm	33% graded quartz 0.3-0.8 mm 67% bazalt granules 3-4 mm
Rate of consumption of KEMAPOXY 175 T	1.5 kg/m^2	2-3 kg/m^2	3-4 kg/m^2
Sprinkled granules	Graded quartz Rate : 2.5kg/m^2	Bazalt granules 2-3 mm Rate 2 kg/m^2 Bazalt granules 1-2 m Rate : 1 kg/m^2	Bazalt granules 4-6 mm Rate : 5 kg/m^2 Bazalt granules 2-3 mm Rate : 2 kg/m^2

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 / Shelf life:

- 2 years under suitable storage conditions in closed containers.

Packages:

- Kits (A + B). 1 kg, 4 kg and 8 kg.
- Follow the mixing ratios ,by weight , indicated on the package.

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