Kemapoxy 129 FR

Fire retardant final Epoxy Coating for Steel and Concrete

Description

- **KEMAPOXY 129 FR** is a two components epoxy solvent containing.
- **KEMAPOXY 129 FR** based on epoxy resin, poly amide hardener, pigments and Special fire retardant materials.
- Complies with requirements of ES 6447 and ES 3303 standard.
- Classified as class (E) according to EN ISO 11925-2 (ignitability of products subjected to direct impingement of flame) and EN 13501-1 standard methods.

Fields of use:

- **KEMAPOXY 129 FR** is applied when high resistance to chemical, corrosion, friction and fire retardancy is required e.g. containers, pipes, machines and road & bridge constructions.
- **KEMAPOXY 129 FR** can be used in drinking water tanks and food stores.
- It can be used in hospitals for operation rooms and hospital facilities.
- It gives a smooth surface, and to obtain slip-resistant floors, sprinkle the pre-final layer surface with a layer of clean sand.

Advantages:

- High resistance to the effects of chemicals, salts, oils and solvents.
- Fire retardancy paint.
- High resistance to mechanical stresses.
- Easy to apply with brush, roller or spray machine

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Technical Data :(at 25 ºC)

Color:	white, grey
Density:	1.26 ± 0.05 kg/l
Solid content:	68± 2 %
Viscosity (ford cup 4):	35 ± 3 S
Mixing ratio A:B (by weight):	2 :1
Pot life:	1 hours (decreases in higher temperature)
Initial setting time:	2 hours
Final setting time:	24 hours
Full hardness:	7 days
Recoating time:	12-24 hours
Min. application temperature:	5° C
Thinner:	Kemsolve 5 (about 10% when needed)
Rate of use (theoretical):	275 g/m²/thickness 100 micron

Chemical resistance:

Sulfuric acid	10%	ex	Sodium hydroxide	50%	ex
	50%	g	Potassium hydroxide	50%	ex
Hydrochloric acid	25%	g	Ammonium nitrate		ex
			FUELS:	Petro	ex
Phosphoric acid	50%	g		Benzin	ex
			Ex: excellent (no softening +no bubbles +no change in color)		
Nitric acid	20%	g	G: good (no softening +no bubbles +slight change in color and weight)		
Acetic acid	5%	g			

Directions for Use:

A - SURFACE PREPARATION:

- The substrate must be clean, sound and free from all contaminants that may have an effect on the adhesion strength like dust, oils and grease, wax, cement laitance, and any other contaminants must be removed by blasting or suitable release agent.
- New concrete should be at least 28 days old the surface moisture should be less than 4 %., holes should be filled with **KEMA PUTTY 133,** any excessed laitance or dust should be removed before applying the primer.
- Steel surfaces Should be blasting for cleaning to SIS-Sa 2½. Remove all oil, grease, dirt, etc

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B - Priming the concrete surface :-

• Concrete surface should be primed with **KEMAPOXY 101** which should be mixed in the proportions supplied.

C - Priming the steel surface:-

●Steel surface should be primed after blasting with good anti-corrosion epoxy primer like Kemapoxy 131 FR**.**

●Add the entire contents of part B to part A when thoroughly mixed preferably using a slow speed drill and paddle.

● The primer should be left to achieve a tack-free condition before applying the topcoat.

D - Mixing the top coat :

Mix component (A) alone, then add the entire contents of part B to part A when thoroughly mixed preferably using a slow speed drill and paddle, mixing well until homogenous state.

- Mixing these components in the quantities supplied regarding the mix ratio in technical data above.
- Be sure that all containers are scraped clean.
- **KEMAPOXY 129 FR** may be diluted by **KEMSOLVE 5** if required (0-12) % Depending on applications tools.

E - Application of top coat:

The first coat of **KEMAPOXY 129 FR** should be applied using a medium haired pile roller or spray to achieve a continuous coating.

Clean tools by **KEMSOLVE 1**.

Application Method: thinner recommended: KEMSOLVE 5

By brush & roller: volume of thinner 0 - 8 %

Air spray: volume of thinne 0 - 12%

Airless spray application:

Volume of thinner 0-10% according to DFT required

Nozzle orifice: 0.49 - 0.54 mm, - Nozzle pressure 15 MPa

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Safety Precautions:

- Application should be carried out in a 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 in a closed container.

Packages:

- Kits (A+B) : 3 Kg
- Follow the mixing ratios – by weight - indicated on the package

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