

Kemapoxy 165

Non-Shrink Epoxy adhesive Mortar and Grouting Compound and for fixing steel bars into concrete under water.

Description:

- **KEMAPOXY 165** adhesive mortar is pre-filled medium viscosity and solvent free, two components product on the basis of modified epoxy resin with an appropriate hardening system.
- Complies with ASTM C 881, BS EN 12004, ES 4118.

Fields of Use:

- **KEMAPOXY 165** is an adhesive mortar for steel to concrete and concrete to concrete.
- Anchorage of bolts and steel bars with concrete under water .
- Grouting under machine plates and steel structures.
- To fill cracks and cavities in concrete elements.
- To fill the joints between anti-acid tiles.

Advantages:

- Shrinkage free.
- High mechanical strengths.
- Good chemical resistance.
- Good adhering to concrete and steel.
- Anti-fungus and anti-bacteria.

Technical Data :(at 25° C)

Colour	Grey
Soild content	100 %
Density	1.95 ± 0.02 kg/l
Mixing ratio A:B (by weight)	12 : 1
Pot life	2 hours
Initial setting time	8 hours
Final setting time	after 24 hours (for light loads)
Full hardness	after 7 days (for full loads)
Min. application temp	15°C
Compressive strength (ASTM D 695)	>800 kg/cm2
Flexural strength (ASTM D 790)	>400kg/cm2
Punching sheet strength(ASTH D732):	> 250 kg/cm2
Adhesive strength on concrete (ASTM C 882)	103 kg/cm2
Rate of use (Theoretical)	2 kg/m2/ mm

Chemical Resistance :

(Immersion time 7 days)

Sulphuric acid	50%	ex	Sodium hydroxide 50%	ex
			Potassium hydroxide 50%	ex
Hydrochloric acid	20%	ex	<u>Ammonium nitrate</u>	<u>ex</u>
	25%	g	Fuels	ex
			Petrol	ex
			Benzin	g
Phosphoric acid	50%	g	<hr/>	
			ex: excellent (no softening + no bubbles no change in colour)	
Nitric acid	10%	ex		
	20%	g		
			g: good (no softening + no bubbles slight change in colour and weight)	
Acetic acid	5%	ex		
	20%	g		

Construction Repair & Strengthening Products

Directions for Use:

- Areas must be clean and free of dust, dirt and other impurities, and if necessary they should be flamed or sandblasted.
 - After thoroughly mixing both components of **KEMAPOXY 165** adhesive, mortars is processed by casting in holes and other areas to be glued .(See details of anchoring the rebar below)
 - For filling joints of anti acid tiles, material should be put immediately after mixing in joint gun and fill the joint with width not less than 5 mm and all over the depth of the tiles then smooth surface.
 - Clean tools by Kemsolve1.
- * **N.B:** In case of working under water surface we can submerge the container contains the mixture A+B under surface of water and the work is done by trained diver .

Steps for anchoring the rebar

- Determining the places to install rebar according to the design drawings.
- Drill holes with a diameter of 2-4 mm more than the diameter of the rebar and a depth of 7-10 times the diameter of the rebar.
- Cleaning the hole with compressed air, then applying a primer coat of Kemapoxy 150.
- Fill about 70% of the depth with Kemapoxy 165.
- Put the rebar required to be fixed while maintaining its integrity in the specified position and level the epoxy mortar and leave it to the final hardness.

Note: It is possible to anchoring the rebar by making Kimpoxy 150 mortar by adding fillers to it in the appropriate proportion to reach the desired consistency as an alternative solution to ready-made epoxy mortar "Kemapoxy 165"

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 in closed containers.

Packages:

- 1kg or 6 kg. kit (A + B).
- Follow the mixing ratios - by weight - indicated on the package.

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