

SCG 50 EPOXY MORTAR

GENERAL RULES

Epoxy Mortar is a mix between mortar and epoxy as a replacement for cement and water. Epoxy Mortar consist of 3 component i.e. 2 liquid (epoxy + hardener) and 1 powder (silica sand) to be mixed evenly and pour to the hole. After drying, Epoxy Mortar will become a mortar that is strong enough to endure the vibration from the machineries or other burden on top of the surface, both static and dynamics. Epoxy Mortar is generally used to fill the hole or gap on machineries anchor, pipe hole, concrete structure, and the characteristic is waterproof.



MATERIAL SPESIFICATION



Name of Material : SCG 50
Base Material : Liquid : Epoxy + Hardener
Powder : Pasir Silica
Color : Natural

Benefit : Good bonding agent, resistant against chemical, high elasticity and able to endure vibration and movement from the area it bonded.

Usage : Bonding agent and filler on the pipe hole, machineries anchor, concrete structure, etc.

Weight Content /Mass : 1.77 ton / m³

Pouring time maximum : approximately 20 minutes at 30° C

Consumption per-m² : for thickness of 10 mm is 18.35 kg/set.

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WORK PROCEDURE

1. PREPARATION WORK

Clean the surface of area to be filled with epoxy mortar from dirt, water, oil or other elements. If needed, scrapping / chipping work can be done to free the surface from the resistant stains.

2. MIXING

- Epoxy Mortar is mixed in a pail or drum in accordance with the quantity needed and within the pouring time, which is 20 minutes after mixing.
- The mixing can be done manually using mixing stick made of wood, pipe, and steel or by machine. The mixture shall be made in accordance with condition and the amount needed in the field.
- After the epoxy liquid and hardener liquid has been mixed evenly, slowly add/pour the powder (silica sand) until finish. Mixing ratio 1 kg liquid : 3 kg powder).
- Thinner can be added to the Epoxy Mortar maximum 10% from the total weight of the Epoxy Mortar.

3. POURING

- Epoxy Mortar must be poured slowly and the height of the pouring should not more than 20 cm from the hole or gap.
- Pouring must be done continually and un-interrupted for one area until such area is full.
- The surface after the pouring must be the same level with the concrete surface.
- Epoxy Mortar mixture must be poured as soon as possible and the waste that has been hardened must be disposed and replaced with the new mixture.

4. PROTECTION

- The curing time is perfected in 24 hours. During that time, activities in that areas are not permitted as those could damage the epoxy mortar.
- Pipe cutting (floor drain, pipe drain) and other waterproofing work can be done after the above curing time.
- Burden in the Epoxy Mortar area not permitted until after the 24 hours curing time has passed.

5. PACKAGING

Epoxy Mortar is packaged as follows :

- 2 Plastic cans consist of 5 kg Epoxy and 5 kg Hardener
- 1 Plastic bag consist of 15 kg Silica Sand

HEALTH AND SAFETY

Epoxy Mortar has within it a chemical material and soluble that can be hard on eye and skin. Gloves, mask and goggles should be worn. When install indoor, air circulation must be available. Smoking or fire is not permitted during the mixing and installation process because there is thinner that is flammable.

Specification of YD – 128

Form	Clear like water liquid	
Epoxy Equivalent (q/eq)	184 – 194	KD – AS – 001
Viscosity (CPS at 25°C)	11,500 – 13,500	KD – AS – 005
Color (Gardner)	0,5 max	KD – AS – 025
Hydrolyzale Chlorine Contents (wt %)	0.05 max	KD – AS – 010
Volatile content (R.E.) wt%	0.13 max	KD – AS – 015

Characteristics of G - 0930

- As a low viscosity Polyamide type hardener, range of mixing ratio is wide.
- Curing time is more adequate and compressive strength is stronger than other Polyamide.
- Less stimulative, less toxic than aromatic amine. Additivity is also excellent.

Specifications of G – 0930

ITEM	UNIT	SPECIFICATION
Amine value	mg KOH/g	300 ± 20
Acid value	mg KOH/g	3 max
Viscosity	cps at 25°C	8,000 ~ 12,000
Colour	Gardner	12 max
A. H. E. W.	g / eq	120 ~ 140

Table of Curing Properties

ITEM	UNIT	G - 0930
Adhesive Strength	Kg / cm ²	160
Tensile Strength	Kg / cm ²	530
Compressive Strength	Kg / cm ²	860
Flexural Strength	Kg / cm ²	950
Pot Life	min	84
Hardness	Shore – D	84
Mixing Ratio	R / H	70 / 30

Please contact us for further information :



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