



RAZON

SUPER EPB 525- concrete crack repair



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Super EPB – 525

Super EPB-525 is a clear, low viscosity, solventless, free flowing, easy penetrating, ready to use two component epoxy grout. The factory prepared & packed proportion of Resin & Hardner is to be mixed at site to obtain a self-curing, tough, high tensile and bond strength, high compressive strength grout.

Super EPB -525 is a non-shrink grout, easy to use and place injection grout specifically developed for injection application. Its mechanical properties make it ideal for use in structural repair applications as well as developing a monolithic bond of a dis-continuous matrix.

Its low viscosity ensures deep penetration into voids as small as 0.2mm, and the grout could be placed either by gravity; OR by gun mechanism OR positive displacement/ pressure injecting equipments.

Features:-

- 1.) Solventless system, non-shrink,
- 2.) Non pigmented.
- 3.) Low viscosity.
- 4.) Normal set and fast curing
- 5.) Excellent mechanical properties including high compressive, high tensile and bond Strengths.
- 6.) Suitable to most construction materials including aluminum, steel, concrete, wood, etc
- 7.) Ideal for grouting in fine cracks, narrow cavities, & even joints or under base plates.
- 8.) Is used for bonding/ sealing/ joining all types of construction materials permanently.
- 9.) Compatible for application by all high pressure grouting equipments, and gun mechanism and flow under gravity, depending upon the application.

Applications:-

- 1.) Structural repair by Injection grouting to repair cracks in concrete structures at power plants, jetties, abutments & piers of bridges, columns, slabs, beams etc.
- 2.) Waterproofing repairs by Injection grouting for dams, aqueducts, swimming pools, leaking podiums slabs etc.
- 3.) Rapid Crack repairs of lateral & longitudinal cracks in pavements, so as to reinstate homogeneity of the concrete pavement.
- 4.) Permanently lap jointing of aluminum/ M.S. sections/ wood for various applications.
- 5.) Bonding permanently two dissimilar/ similar materials.
- 6.) Injection grouting into crevices of heavy structures, or cracks above 0.2 mm in concrete pavements.
- 7.) Grouting of anchor bolts, high vibration machine foundations, steel embeds in concrete, steel inserts etc.

Method of Use:-

For fine crack repairs :- Drill 14 mm diameter holes into the concrete adjacent to the cracks at an angle in such a way that the drilled hole intersects the crack. The distance between two holes is minimum 30 mm. Insert packers, and tighten them. Using an grouting equipment, inject the Super EPB 525 product after mixing it in the ratio 2:1 (resin:hardner). The penetration of the product in the crack shall be visible as it progresses under the pressure of the equipment. Use the product within the specified pot life. Cut off the packers and seal it with RAZON BOND 40 epoxy putty.

For Lap jointing/ permanent bonding of construction materials:- Clean the surface to be bonded thoroughly, use CTE thinner for cleaning and degreasing, wipe with a clean & dry cloth. Mix the Resin + Hardner components of Super EPB 525 in ratio 2:1 (Resin:Hardner) and apply on any one face of the surfaces to be bonded, place the adjacent face and hold the two faces together with clamps for 24 hours. After 24 hours the clamps can be released to achieve a strong bond/ joint.

Grouting of steel inserts in concrete :- Drill the hole of appropriate diameter which is to receive the insert. Use compressed air to remove any dust from the bore. Place the insert into the bore & secure it in an axial position with a template, maintaining a gap between the template and the concrete surface. Pour the mixed Super EPB525 (2:1 resin : harnder proportion of mixing) into the bore & allow 24 hours for hardening. Release the template to have a strong insert permanently embedded in the concrete.

For emergency repairs:- Graded filler can be added to Super EPB 525. The qty of filler and size determine the loading into Super EPB 525. Approx 30 kg of quartz sand (0.6mm -1 mm size) per 10 kg of Super EPB 525 is permissible for achieving a good quality, high strength epoxy mortar for concrete repairs. Consult your closest RAZON representative for details.

No external curing required it is self curing. Super EPB 525 is compatible with dry surfaces and SSD conditions surfaces, but not suitable for water submerged (at the time of applications) surfaces; however once it sets Super EPB 525 bonded surfaces can be used underwater.

Clean all equipment and hands with CTE thinner immediately after use. Preferably use eye goggles, hand gloves , other PPE when working.

Packing 1.5 kg & 10 kg & 30 kg Combo Pack containing Resin and Hardner

S/n	Product Data	
1	Colour	Resin:- Clear Coloured; Hardner: Clear Amber Coloured
2.	Pot Life Full cure	30 minutes @ 27 °C 7 days
3.	Initial Setting Time	45 minutes @ 27 °C
4.	Compressive strenght	30 MPa @ 24 hours 75 MPa @ 7 days
5.	Flexural Strenght	45 kg/cm2 @ 24 hours 48 MPa on 7 days
6.	Tensile Strenght	28 MPa @ 7 days
7.	Bond strength	Concrete failure.
	Viscosity @ 27 °C	Resin – 500 - 600 mPa.s Hardner – 500 - 900 mPa.s
8.	Storage Life	2 year (Store in cool and dry place away from direct sunlight in un-mixed condition in sealed containers)
9.	Precautions	Use gloves, when using Super EPB-525. Use all suitable PPE while working. Avoid smoking provide abundant ventilation. Wash & clean hands thoroughly after use.
10.	Corrosive	Nil. After setting imparts high corrosion resistance and water tight characteristics to metal, concrete etc.
11.	Yeild	Approx 1050 kgs per m3

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AN ISO 9001:2015 ACCREDITED MANUFACTURER



It is strongly recommended that site trials be conducted using site conditions and available raw materials to evaluate the product. Since site materials and conditions are beyond our control and since above suggestions and recommendations are based on our site trials and laboratory product evaluation & trials, and since methods of use at site are beyond our control. Hence, no guarantee can either be implied or enforceable

Epoxy Mortars

CONCRETE ADMIXTURES

Bonding Agents
Primers

PROTECTIVE EPOXY COATINGS

CURING COMPOUNDS

Rapid Repair Mortars

INJECTION GROUTS

**MICRO-CONCRETE &
CEMENTATIOUS GROUTS**

Waterproofing

RAZON

An ISO 9001:2015 Manufacturer:-

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