

BLUSKY™ POXYCRETE 21

Solvent Free Injectable Epoxy Grouting Compound

Description

BLUSKY™ POXYCRETE 21 is a two components (Component A – Resin, and Component B -Hardener) solvent free low viscosity free flowing, fast curing epoxy resin system.

Indicative Characteristics

Mix Ratio by wt. Part A:B	2:1
Color of mixed products	Light to Dark Amber
Pot life at 27°C, minutes	45
Relative Density of mixed material, 30°C	1.09
Viscosity, poise, at 30°C, ASTM D 2393	5
Compressive Strength, N/mm ² , 24 hours, ASTM D 695	50
Compressive Strength, N/mm ² , 7 days, ASTM D 695	75
Bond Strength, 2/14 days(moist cure), N/mm ² ASTM C 882	8.1/12
Tensile Strength, N/mm ² , 7days, 30°C, ASTM D 638	38
Shrinkage, ASTM D 883	Passes test
24 Hours Water absorption, % (w/w), ASTM D570	0.08
Elongation at Break, %, ASTM D 638	1.1

Domains of Application

- As an injection resin with good adhesion to dry concrete, mortar, stone, steel and wood.
- To fill and seal voids and cracks in structures such as bridges and other civil engineering buildings, industrial and residential buildings, e.g. columns, beams, foundations, walls, floors and water retaining structures.
- Grouting of machine base plate, bridge bearing bases, anchoring of bolts, etc.

The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users Consult the latest update of the technical data sheet on our website www.bluskyscpl.com

Method of Application

Surface Preparation

The area to be treated should be properly cleaned to remove dust, laitance, grease, fungus etc. Injection nipples are fixed in a square grid maximum 500 to 800 mm c/c depending on the cracks and nature of concrete. If required for effective treatment, the grid may be reduced. Before the injection starts all cracks and crevices are to be sealed with POXYCRETE - 21 mortar (Resin- 2part, Hardener -0.5 part and fine silica sand 12 to 14 part) or any other suitable quick setting mortar. This mortar can also be used for surface sealing for other porous areas.

Mixing

Mix the entire component - B (Hardener) with Component - A (Resin). Mix for 2-3 minutes to uniform colour without any streak using a drill and paddle (speed approx. 250 - 400 R.P.M.) mixer so as to avoid any entrapped air. Mix only sufficient materials for immediate requirements. Leave the mixed material to stand for 2-3 minutes to enable entrapped air, if any, to escape from the mix and then use as quickly as possible.

Application

In case of application by injection method, the grout mixture should be pumped by a positive displacement plunger type pump. Inject at slow and even pressure through the injecting nipples till refusal or when the grout oozes out from the nipple immediately adjacent to or above the one being injected. The mixed material can also be applied by simple pouring the material through the pockets or repairable cracks or both the surfaces to be joined. The excess material must be removed with a sharp scraper or concrete finishing tools to a smooth and flat finish. In case of application (as concrete sealer) by brush or roller, the mixed mixture should be painted (by a brush or roller) for minimum two coats. The second coat of painting will be done after proper air curing of first coat. Preferably it should be done after 8 hours of application of first coat.

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Advantages

- Designed for pressure injection grout into concrete for carrying structural repairs and small pocket grout, grouting of bearing base plates, etc.
- The cured resin possesses high mechanical strength, excellent adhesion, practically no shrinkage and chemical resistance.
- Fine cracks, joints and small voids can be successfully sealed with POXYCRETE - 21.
- Although POXYCRETE - 21 has a very high strength, the cured material is not brittle and remains a slight flexible in nature.

Shelf Life & Storage

12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C.

Packing

3kg, Pack- A (Resin): 2kg, Pack-B (Hardener):1kg

Precautions

- Store the material in shaded cool place and keep it away from fire and any heated body. Clean all tools with MEK or any standard solvent before polymerization starts.
- Mix only sufficient materials for immediate requirements. Leave the mixed material to stand for 2-3 minutes to enable entrapped air, if any, to escape from the mix and then use as quickly as possible.
- Should not be mixed multiple packs at a time. This may result drastic reduction of pot life and material may gel quickly before injection process.

Safety

- Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet. The MSDS is available on www.bluskyscpl.com

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