

BLUSKY™ POXYCRETE - 218NS

Solvent Free Thixotropic Non- Sagging Epoxy Mortar for Concrete Structures

Description

BLUSKY™ POXYCRETE 218NS is a solvent free thixotropic structural grade three part epoxy compound especially formulated vertical and overhead concrete repair, sealing of small joints of CI or PVC spouts in sunken areas.

Pack A : Epoxy Resin, Pack B : Epoxy Hardener, Pack C : Special Filler

Indicative Characteristics

CHARACTERISTICS	TYPICAL VALUE POXYCRETE 218NS Temp@30°C
Mixing Ratio (Pack A: B:C), by	2:1:8
Pot life , minutes, ASTM C 881	60-80
Open time, minutes,	>160
Thixotropy (Sag), mm , ASTM	< 2
Shrinkage, ASTM D2566	Nil
Comp. Strength, 24 hours, MPa, ASTM D 695	40
Comp. Strength, 7 days, MPa, ASTM D 695	60
Shear Bond Strength, ASTM C	Concrete failure at 12 MPa
Water absorption, ASTM D570	Passes Test (Less than 1%)
Specific Gravity	1.72
Coverage (approx), kg/mm/m ²	1.7

Domains of Application

Used as repair mortar for vertical and overhead concrete structures, joints steel and hardened concrete, filling and sealing pipe and concrete water tight joints. It can also be used as a pointing material for stone masonry, heavy duty ceramic and cement tiles.

Method of Application

Surface Preparation

Substrate surface must be sound, dry, clean and free from laitance, ice, standing water, grease, oils, old surface treatments or coatings and all loose or friable particles must be removed to achieve a laitance and contaminant free, open textured surface. **Steel:** Must be cleaned and prepared thoroughly to an acceptance quality i.e. by shot blasting and vacuum cleaning. Surface temperature must be 3°C above dew point. **PVC PIPE:** Rub the peripheral surface of pipe with SCOTCH BRITE to remove release agent and provide key effect to epoxy compound.

Mixing

A suitable power driven mixer / stirrer is recommended for uniform mixing of the **BLUSKY™ POXYCRETE 218NS**. Stir the base and hardener separately. Mix hardener gradually into the base under continuous stirring as per the stated mixing ratio. Continue mixing for 1-2 minutes. Add Pack C (Filler powder) slowly and mix well for 2-3 minutes till the components become homogeneous.

Application

The product shall be spread by steel trowel or putty knife to the required thickness. Apply the mixed material on both sides of the surfaces to be bonded. The joint should be closed immediately or within the open time of the adhesive. .

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

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Advantages

- Non slump
- Primer less
- High initial and ultimate strengths.
- Impermeable to liquids and water vapor
- Suitable for dry and slight damp concrete surfaces
- Hardening is not affected by humidity
- Thixotropic: non-sag in vertical and overhead applications
- Solvent free
- Hardens without shrinkage

Shelf Life & Storage

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

Packing

11kg kit.

Precautions

- Store the material at the 5° to 40°C temperature range 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 5-8 minutes for induction reaction followed by re-mixing and then use as quickly as possible.
- Do not mix large quantity at a time; this may lead shorter pot life. Use the mixed material within the 10-20 minutes after mixing to avoid gelling.
- Application temperature must be 3°C above the dew point but not more than 40°C.
- Do not apply on wet surface though bond strength of slightly damp concrete surface is good

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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