



TECHNICAL DATASHEET

563 EPOXY INJECTION GROUT - LOW VISCOSITY

DESCRIPTION:

NeoSeal® 563 is a two-component solvent free low viscosity epoxy resin and hardener. It is specially designed for grouting applications to fill the gap widths range from 0.25 mm to 10 mm. It is also useful for injection applications of structural cracks in concrete as well as masonry of crack widths from 0.05 mm to 3 mm.

AREA OF APPLICATION:

- Crack injection grout application
- Filling and bonding of cracked concrete
- Structural support where thin section grouting is required
- Structural support where dynamic load resistance is required

TECHNICAL SPECIFICATIONS:

Properties	Test Results
Appearance	Base (Part-A) - Clear Liquid
	Hardener (Part-B)- Yellow Liquid
Mixing Ratio	Base + Hardener (100:50)
Mixed Viscosity	200 - 400 cps
Mixed Density	1.05 ± 0.05
Pot life at 20°C	Min. 90 minutes
Pot life at 40°C	Min. 50 minutes
Application Temperature	From +10°C to +35°C
Performance Properties	
Compressive Strength 1 day	> 40 N/mm ²
Compressive Strength after 7 days	> 70 N/mm ²
Tensile Strength after 7 days	> 45 N/mm ²
Flexural Strength after 7 days	> 55 N/mm ²
Water Absorption	Nil
Bond strength	Concrete failure
Shrinkage	No Shrinkage
Substrate Moisture Content	Dry Condition

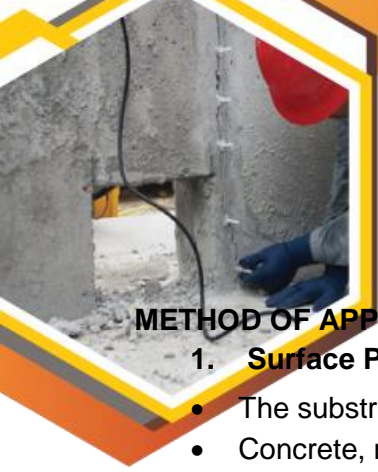
FEATURES & BENEFITS:

- Solvent-free, Low viscosity
- Suitable for both, dry and damp conditions
- Usable at low temperatures
- Shrinkage free hardening
- High mechanical and adhesive strengths
- Hard but not brittle
- Injectable with single component pumps after mixing resin and hardener

NeoSeal Adhesive Pvt. Ltd.

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METHOD OF APPLICATION:

1. Surface Preparation:

- The substrate shall be thoroughly clean, free from dust, oil, loose material.
- Concrete, mortar, stone should be thoroughly prepared by high pressure water jetting or mechanical means such as grinding, chiselling etc.
- Cracks must be cleaned to remove dust with compressed air.

Fixing Injection Packers

- The injection packers shall be inserted into pre-drilled holes at intervals along the length of each crack. The distance between each packer will depend upon the width and depth of the crack. Spacing shall be close enough to ensure that the resin will penetrate along the crack to the next point of injection.
- The surface of the cracks between the packers shall be sealed with suitable sealant. Both sides of any cracks which go all the way through a wall or slab shall be sealed.
- In the case of a wall or slab cracked all the way through, packers shall be located on both sides with those at the back placed at midway points between those at the front.
- The sealed crack shall be allowed to cure for overnight. At low temperatures (5°C to 12°C) the curing time will be extended and the applicator shall ensure that the surface sealant has adequately cured prior to continuing.

2. Mixing:

- The whole material of PART A and PART B should be poured into a clean mixing container and mix it to a uniform consistency.
- Immediately apply the mixed grout onto the working area.

3. Application:

(a) Crack Injection:

- Use low pressure pump to inject mixed grout starting at the lowest point of the crack and work upwards to the highest point sealing off each injection point in turn.
- Allow grout to cure for at least 24 hours.
- Cut off external parts of injection tubes followed by tools and equipment should be cleaned with solvent prior to grout setting.

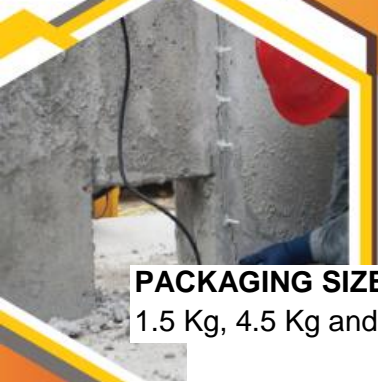
(b) Pouring Under Gravity

- For supporting structures, where epoxy injection grout is being poured under gravity, the use of a grout tight shutter is essential.
- This may be constructed from timber and sealed using fast set mortar.

NOTE: Apply a mould releasing agent to the form work surfaces which will affect release after the grout has hardened.

4. Cleaning:

Tools and containers can be cleaned using solvent before the material is hardened. The hardened grout material can be removed using the tools mechanically.

**PACKAGING SIZE:**

1.5 Kg, 4.5 Kg and 15 Kg

SHELF LIFE AND STORAGE:

24 months from the date of manufacturing when in sealed pack and stored under proper condition.
Store in a cool & dry place

HEALTH & SAFETY PRECASUTIONS:

Wear suitable protective clothing, gloves and eye protection equipment during mixing and application. In case of contact with skin, rinse with plenty of water. In case of contact with eyes, immediately rinse with plenty of clean water. Seek medical advice, if needed. Keep out of reach of children.

WARRANTY:

The above information given based on our knowledge and performance of the material in order to help you in good faith. Every precaution is taken in the manufacturing of the product and our responsibility is limited to the quality of supplies. We guarantee the consistent high quality of our product; however, as we have no control over the site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

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