



TECHNICAL DATASHEET 564 GROUT GP22

FREE FLOW, HIGH STRENGTH, NON-SHRINK GROUT

DESCRIPTION:

NeoSeal® 564 GP22 is a Cement-Based general-purpose grout prepared with blend of high strength cement, graded fillers, special grade polymer additives and some chemicals. It is single component non-shrink, ready to mix and use, pourable and flow able engineering grout in dry powder form. The grout contains no chlorides or other substances which could aggravate corrosion of reinforcing steel.

AREA OF APPLICATION:

- Anchoring of mechanical equipment
- Anchoring of steel bars
- Filling of rigid joints between elements in concrete and precast concrete structures
- Execution of underpinning
- Pressure grouting of concrete structures
- Grouting of machine base plates, bridge bearings
- Concrete repair

TECHNICAL SPECIFICATIONS:

Properties	Test Results
Appearance	Free flowing grey powder
Mixed Density	1.75 -1.80 kg/ litre
Mixing Ratio (Grout: Water)	100:15
Pot life @ 30°C	Min. 30 minutes
Sag Resistance	No-sag
Application Temperature	From +10°C to +35°C
Performance Properties	
Tensile Strength after 28 days	> 3.5 N/mm ²
Flexural Strength after 28 days	>10 N/mm ²
Pull-off Bond Strength after 28 days	≥20 N/mm ²

Type of Mixing	Compressive strength N/mm ² .			
	1 day	3 days	7 days	28 days
Flowable	≥25	≥47	≥55	≥67
Pourable	≥27	≥54	≥58	≥72
With 100% Aggregate	≥30	≥56	≥67	≥80
With 75% Aggregate	≥28	≥52	≥62	≥74
With 50% Aggregate	≥27	≥50	≥60	≥71

NeoSeal Adhesive Pvt. Ltd.

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FEATURES & BENEFITS:

- Easy to use & clean - just mix with water, ready to use.
- Controlled expansion to ensure positive surface contact and low water permeability.
- Quickly develops high compressive strength to facilitate early reinstatement.
- High ultimate strength and zero water permeability.
- Chloride and iron free, hence no rusting or staining on exposed edges.
- Easy to pour free flowing and self-levelling nature; it can be pumped or poured into restricted locations.
- Low VOC - For healthy living.

METHOD OF APPLICATION:

1. Surface Preparation:

- The substrate shall be thoroughly clean, free from dust, oil, loose material, surface contamination and materials which reduce bond or prevent suction or wetting by the grout.
- Delaminated, weak, damaged and deteriorated concrete and where necessary sound concrete shall be removed by suitable means.
- The concrete "pull off" tensile strength should be ≥ 1.0 MPa.
- The concrete substrates should be pre-soaked with clean water continuously for 2–6 hours to ensure a saturated surface dry condition throughout the operation.
- Immediately before pouring grout remove all excess or standing water from within any formwork.
- Bolt holes and fixing pockets must be blown clean of any dirt or debris.

2. Mixing:

- Take water in to the clean container/pail.
- Add grout powder slowly and mix thoroughly by hand or with a slow speed mixer (<500 RPM) until slump free smooth paste is obtained.
- Avoid entraining air by mixing at very high speed or by over-mixing.
- Mix only full bags for the best results.
- Immediately apply the mixed grout onto the working area. Use the paste within 15 minutes from mixing.
- **Mixing ratio- For Pourable - 3.4 Ltr water for 25kg bag of grout**
- **Mixing ratio- For Flowable - 3.75-4.0 Ltr for 25kg bag of grout**

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3. Application:

- Remove excess water from substrate surface e.g. with clean sponge, until surface is dark matt in appearance without glistening (saturated surface dry).
- Surface pores and pits shall free from water.
- Keep the mixed grout for 5 min to remove air bubbles/voids.
- In order to prevent air voids, apply mixed grout from one side or corner only.
- It should be placed within 15 min of mixing.
- Flowable mix may be used with low pressure cement grouting equipment or may be hand rodded into application area.
- High points must be adequately vented to allow entrapped air to escape.
- Pourable mortar may be rodded into place.

Note: NeoSeal® 564 GP22 shall be used in the thickness range of 10mm to 100mm in a single pour. For thickness of a section more than 100mm, use 50-100% (by weight of 564 GP22) 5-10 mm coarse graded aggregate shall be used to reduce temperature built up in the hardened grout.

4. Cleaning:

- Tools and containers may be cleaned using water before the material is hardened.
- The hardened grout material can be removed by tools mechanically.

PACKAGING SIZE:

5 Kg. and 25 Kg. bag

SHELF LIFE AND STORAGE:

6 months from the date of manufacturing in unopened condition 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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