

## NS Grout-50

### Cementitious Non-Shrink Free Flow, High Strength Grout

#### Description

**NS Grout-50** is a cement-based, non-metallic, non-shrink grout containing graded, natural, fine aggregate and other carefully selected components. It gives high-strength and designed for precision grouting and general construction applications. NS Grout-50 can be mixed to a fluid, flowable, or plastic consistency requiring only the addition of clean water. Total shrinkage compensation, which provides a maximum bearing surface for the greatest overall support.

#### Features / Advantages

- Rapid power increase to reduce turnaround time for equipment installation
- Excellent working time at high ambient temperatures.
- Economical, large amounts of grout can be mixed and handled.
- Non-corrosive, non-chloride, non-metallic
- Excellent resistance to freeze-thaw cycling
- High strength for maximum load bearing.
- It is easy to mix and apply as only water of a definite quantity has to be added at site to the readymade grout.
- The cementitious grout with special additives and graded aggregates are compatible with concrete substrates.
- Pre-packed grout overcomes potential on site batch variations.
- Promotes rapid installations & early operation of plant.
- Highly fluid and extremely place-able for easy field use
- Non-Shrink with minimum positive expansion for high tolerance performance
- Non-bleeding and non-segregating at a fluid consistency.

#### Typical Application

- Ball Mills in cement plants
- Grout machinery base plates and column sole plates
- Repair of precast units
- Grout anchor bolts, dowels, and handrails
- Infill of pipes, sleeves & tie rod holes
- Anchor bolts and bars
- DG sets Base foundation
- Fence posts
- Petro-chemical & fertilizer units
- Bridge bearing plates
- Bearing plates & Textile machineries
- Heavy duty grouting of machinery and equipment.

### Technical Analysis (Conforms To ASTM C 109, & Internal Test Method)

#### Technical Information

Sr. No.	Parameters	Specification
1	Colour	Grey dry powder
2	Consistency	10 – 15 %
3	Flow At 0 Minute	200 – 250 mm
4	Flow At 20 Minute	150 – 200 mm
5	Setting Time	< 10 Hours
6	Bleeding	NO BLEEDING OR FOAM ON TOP
7	Compression Strength	
	(After 1 Days)	> 15.0 Mpa
	(After 7 Days)	> 30.0 Mpa
	(After 14 Days)	> 40.0 Mpa
	(After 28 Days)	> 50.0 Mpa

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#### Methods of Application

##### Substrate/Surface Preparation

- Clean loose particles, dirt, grease, and traces of foreign materials from the surface, if necessary, by using wire brush/sandpaper or by chipping.
- Make sure the surface temperature and ambient temperature of grouted area should be between < 50C and > 400C.

##### Mixing

- Take approx. 100-150 ml of clean water for 1 Kg of NS Grout 50 in a clean bucket. It is very important that add material into water and not vice versa.
- Stir continuously for 3-5 minutes by using mechanical stirrer or by hand to obtain a homogeneous lump- free paste.

##### Application

- Pour grout immediately after mixing one side in watertight shuttering around the basement / structure of the machine. Make sure that the air dispensed by pouring grout escapes and air entrapment is avoided.
- The grouting should be continuous, and the pressure head should be sufficient to keep the grout flowing.
- To prevent grouts from falling out, use wood or MS shuttering material with a polythene sheet or coating.
- When placing grout in a large mass, keep a minimum of 25 mm thickness and a maximum of 100 mm per lift. This will prevent the formation of any cracks after healing.
- Used of gravels (5 to 12 mm) is recommended for bigger depth.

##### Curing

- Curing is necessary to optimize the physical properties of concrete and to reduce the shrinkage. Continuous moist treatment for a minimum period of 7 days.
- Alternatively, moist cure for a minimum period of 24 hours and apply a curing compound complying with standard.
- Curing is particularly critical in rapid moisture loss conditions such as high temperatures, high winds, and low humidity.

#### Usage Precautions

- Do not add more water than recommended.
- Keep away from water and damp area.
- Applicable for ceramic tiles only.
- Maximum thickness should not more than 3 mm.
- Do not used on gypsum plaster surface, paint, wood and metal.
- Avoid using partially used material; open bags with partially used material should be kept in a bag with its mouth tied tightly with string to prevent lump formation.
- As temperature, humidity, water addition and other parameters vary from site to site; the above information should be treated as general guidelines.



#### Packing

25 kg



#### Storage and Shelf life

- Store in cool, dry, and well-ventilated place away from heat source or direct sunlight.
- Shelf life is 12 months.



#### Cleaning of Tools & Equipments

NS Grout 50 should be removed from the tools at the earliest before it hardens, by cleaning with water.



#### Consumption

Yield (Consumption) of NS Grout 50 for  
Trowable consistency: - 13 lit for 25 kgs &  
Flowable consistency: - 13.7 lit for 25 kgs material.

The coverage figures given are theoretical - due to wastage factors and the nature and variety of possible substrates, practical coverage may vary.

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#### ● **Ecology, Health and Safety**

Health & Safety instructions, all chemicals should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn.

If contact with skin occurs, wash well with soap and water.

Eye contamination should be washed thoroughly with clean water and medical advice sought. If swallowed seek medical attention immediately. Do not induce vomiting.

#### ● **Disclaimer**

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Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.

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