

# Diamond Non-Shrink Grout T88

## Cementitious Non-Shrink Grout

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### Product name

Diamond Non-Shrink Grout T88

### Manufacturer

Produced in Philippines by  
Diamond Dry Mortars Inc.



### Product description / General Purpose

Diamond Non-Shrink Grout T88 is a premium Cementitious, shrinkage compensated, self-levelling grout. Mixed with only clean potable water

#### Features:

- From very thin to 50 mm in one pour
- Fast setting and high early strength
- High ultimate strength
- Non-shrinking
- Water resistant
- Pumpable
- Economical, fast and easy to use
- Chloride and iron free
- Non-corrosive

#### Uses:

- Machine foundations
- Supporting steel structures
- Columns in pre-cast constructions
- Concrete anchors
- Cavities and gaps
- Bridge bearings

Application info	
Colour	Grey
Thickness per pour	Minimum 5 mm Maximum 50 mm
Yield	Flowable: 14.5 liters per 25 kg bag (5 L water) 69 bags per m <sup>3</sup> (345 L water)
Mixing ratio: Flowable: Pourable: Stiff:	Liters of water per bag (%) 5.0-5.5 L (20-22%) 4.25-4.5 L (17-18%) 3.25-3.75 L (13-15%)
Pot life (working time)	30 mins
Flow time	15 mins
Initial Setting	25-45mins
Final Setting time	60-75 mins
Maximum grain size	1 mm
Shelf life	12 month if product is stored in dry conditions
Packing	25 kg per bag



## Limitations

- Never mix with cement or admixtures.
- Do not exceed recommended mixing ratio for flowable consistency. Over watering lead to segregation and will weaken the product, if overwatered immediately add more Diamond Non-Shrink Grout T88 to bring the consistency back to the desired level. Less water can be used to make the product less fluid.
- Only install over rigid substrates.
- New concrete surfaces must be fully hardened (28 days old).
- Construction joints in the underlying substrate should be carried through the Diamond Non-Shrink Grout T88 to avoid cracking.
- Always perform a test on the actual substrate to secure the products suitability for the intended use.

## Surface preparation

- Ensure the substrate is sound, clean and free from any dust, loose particles and contamination like oil, grease including form-oil compounds
- Very smooth surfaces such as power troweled concrete should be mechanically abraded, or acid etched before application.
- Deeply contaminated substrates must be abraded to a clean sound surface.
- If the quality and strength of the concrete substrate is not good, it should be primed with Diamond Acrylic Primer.
- For metallic surfaces: surface should be clean, free from scale, rust, oil and grease.

Physical data	Typical test result
Compression Strength EN 1015-11 - 3 days - 7 days - 28 days	Minimum 25 N/mm <sup>2</sup> Minimum 40 N/mm <sup>2</sup> Minimum 80 N/mm <sup>2</sup>
Flexural Strength EN 1015-11 - 7 days - 28 days	Minimum 7.0 N/mm <sup>2</sup> Minimum 7.5 N/mm <sup>2</sup>
Dry bulk density EN 1015-6	1,300 to 1,500 kg/m <sup>3</sup>

## Surface priming

- Priming the surface with Diamond Acrylic Primer prior to application of Diamond Non-Shrink Grout T88 will improve adhesion.

## Mixing instructions

- For flowable consistency: 4.5 liters of water is needed for one bag (25 kg) of Diamond Non-Shrink Grout T88 to be self leveling. When mixing one bag pour about 4.0 liters of clean portable water in the pail, add the whole bag of Diamond Non-Shrink Grout T88 while mixing with a heavy-duty electric drill. Mix for a few minutes. Adjust with the last 0.5 liter to get the right consistency.



- Important: If the mix gets over watered, the mix will start setting up a lot of bobbles and segregation, where the sand will go down and water will go up, will be experienced . To compensate for that immediately add more Diamond Non-Shrink Grout T88 to the mix to get the consistency back.
- If a stiffer mix is required, use less than the 4.5 liters of water per bag. Follow the recommendation in the table on page 1.
- Do not mix more bags at the time than the mixing equipment can handle, it is important that the mix is smooth and uniform without lumps.
- For bigger volumes where thicker layers of Non-Shrink grout is needed (more than 50 mm thickness) graded sand and gravel up to 10 mm can be added. Do not add more than 20 kg per bag of Diamond Non-Shrink Grout T88 .

## Application

- Use Diamond Non-Shrink Grout T88 for grouting only. After mixing pour the grout directly into the prepared form work. For bigger pours; ensure a continuously flow of material. Diamond Non-Shrink Grout T88 is suitable for pumping which will make bigger pours easier.
- For external application: protect the surface from direct sunlight, high wind and extreme temperatures. Avoid excessive loss of moisture in the first 24 hours.

## Product Safety

Please refer to Diamond Material Safety Data Sheet.

The product is a cement-based product and may cause skin irritation. Avoid contact with skin by wearing suitable clothing and gloves. In the event of contact with skin, wash with clean water to minimize possible irritation. If any material gets into the eyes, wash immediately and repeatedly with eyewash or clean water.

If the irritation persist, seek medical treatment.

## Fire resistance

The product is non-combustible.