

NON SHRINK GROUT HS

Single-Component Non-Shrinking Cementitious Grout

ASTRAL

TRUBUILD™

TECHNICAL DATA SHEET VER NO. N.1

PRODUCT DESCRIPTIONS

Trubuild Non-Shrink Grout is single-component cementitious grout, which can withstand static and dynamic loads. It is having cement, graded fillers and chemical additives which impart controlled expansion in the plastic state & minimises water demand. It is suitable for the grouting works of gap thickness from 10 mm to 100 mm.



FEATURES & ADVANTAGES



NON-SHRINK



HIGH COMPRESSIVE
STRENGTH



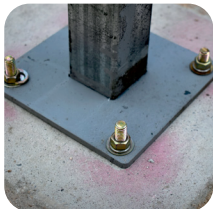
GOOD FLOW



NON-CORROSIVE

- Chloride free.
- Ready-to-use cement mix and requiring the simple addition of water.
- Indoor & Outdoor

AREAS OF APPLICATION



PACKAGING



- Typical applications would be the grouting of base plates of turbines, compressors, boiler feed pumps, etc.
- It can also be used for anchoring a wide range of fixings. These include anchor bolts and fence posts.

METHOD OF APPLICATION

SURFACE PREPARATION

- Concrete surface should be clean, sound and free from oil, grease, laitance and loosely adhering particles.
- Metal surface should be free from scale, rust, oil and grease.
- All adsorbent surfaces must be well soaked with clean water.

CURING

Allow 28 days curing for full strength. Good curing practice is essential for all exposed surfaces: curing using water.

MIXING

Mixing ratio for desired consistency is as follows.

S.No.	CONSISTENCY	WATER (L) PER 20 KG BAG
01.	FLOWABLE	3.8
02.	POURABLE	3.2
03.	STIFF	2.8

- Take 75% of water as per desired consistency first and then add Trubuild Non-Shrink Grout HS gradually with continuous mixing using a spiral mechanical mixture machine.
- Add remaining water with continuous mixing until desired consistency is not obtained. After mixing, leave for 3-5 minutes to remove entrapped air.

POURING

- To carry out the pouring work, the mix is poured immediately into the designed frame work. For baseplate grouting uninterrupted flow is required.
- For larger section, it is necessary to mix 1 part of 10 mm silt free aggregates to minimise temperature rise. Other precautions such as the use of chilled water, insulation of the framework or base plate may be required.

TECHNICAL PROPERTIES

S.NO.	PROPERTIES (Values at water: powder = 0.16)	STANDARD	RESULTS
01.	Appearance	-	OPAQUE
02.	Colour	-	GREY
03.	Flow (mm)	IS 2250-1981	110
04.	Compressive Strength - 1 Days (N/mm ²)	ASTM C 109 - 2021	Approx. 38
05.	Compressive Strength - 7 Days (N/mm ²)	ASTM C 109 - 2021	Approx. 45
06.	Compressive Strength - 28 Days (N/mm ²)	ASTM C 109 - 2021	Approx. 72
07.	Flexural Strength - 7 Days (N/mm ²)	ASTM C 348 - 2021	Approx. 8
08.	Flexural Strength - 28 Days (N/mm ²)	ASTM C 348 - 2021	Approx. 10

COVERAGE

S.NO.	CONSISTENCY	WET DENSITY(Kg/m ³)	YIELD (L)
01.	Flowable	Approx. 2300	Approx. 10.35
02.	Pourable	Approx. 1700	Approx. 13.65
03.	Stiff	Approx. 1340	Approx. 17.01

STORAGE

Product should be stored in a dry place strictly away from moisture.

SHELF LIFE

6 months from the date of manufacturing, if stored in the original and unopened packaging in a cool dry place away from direct sunlight.

DISCLAIMER: This technical data sheet replaces all previous versions of it from the immediate effect. The information, and, in particular, the recommendations relating to the application and end-use of Astral Ltd, construction chemical products, are given in good faith based on our knowledge and experience of the products when properly stored, handled and applied under suitable favourable conditions in accordance with application instructions recommended in product technical data sheet. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. For the products on which company is offering warranty, please refer to warranty document to know entire terms and conditions. The same can be availed on request or from company website. The values mentioned in the above tables in technical data sheet are obtained in controlled lab conditions when tested properly by competent laboratory. Tolerance up to five to ten percentage on the lower side from the above values are allowable. Astral Ltd. reserves the right to change the properties of its products without notice. The end user of the product must test the product's suitability for the intended application and purpose. Astral Ltd will not bear any responsibilities on the product failure if it is wrongly positioned or if improper application methodology is adopted by the user or the applicator. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product technical data sheet for the product concerned, copies of which will be supplied on request. No freedom from any patent owned by Seller or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, customer is responsible for determining whether products and the information in this document are appropriate for the customer's use and for ensuring that the customer's workplace, and disposal practices are in compliance with applicable laws and other governmental enactments.