



GROUT 700 NS (INDUSTRIAL GROUTS & FLOOR HARDNERS)

Date/Revised: 27-11-2019

Product Description:

GROUT 700 NS is supplied as a ready to use dry powder. The addition of a controlled amount of clean water produces a free flow, non-shrink grout for gap thicknesses up to 100mm.

GROUT 700 NS is a blend of Portland cement, graded fillers and chemical additives which impart controlled expansion in the plastic state whilst minimizing water demand. The low water demand ensures high early strength. The graded fillers are designed to assist uniform mixing and produce a consistent grout.

Areas of Application:

- ❖ Heavy machineries & equipment foundation.
- ❖ Bridge bearing pad & structural columns in pre-cast crane rail construction grouting.
- ❖ Boiler foundation & turbine generator bearing plates.
- ❖ Cavities, gaps, recesses and anchorage.

Applicaton:

Surface Preparation

- ❖ The substrate surface must be free from oil, grease or any loosely adherent material.
- ❖ If the concrete surface is defective or has laitence, it must be cut back to a sound base.
- ❖ Bolt holes and fixing pockets must be blown clean free from any dirt or debris.

Mixing

- ❖ For best results a mechanically powered grout mixer should be used.
- ❖ When quantities up to 50kg are used, a heavy duty slow speed drill (400-500 rpm) fitted with a paddle is suitable.
- ❖ Larger quantities will require a heavy duty mixer.
- ❖ To enable the grouting operation to be carried out continuously, it is essential that sufficient mixing capacity and labour are available.
- ❖ The use of a grout holding tank with provision to gently agitate the grout may be required.

Application

- ❖ At 300C place the grout within 20 minutes of mixing to gain full benefit of the expansion process.





- ❖ **GROUT 700 NS** can be placed in thicknesses up to 100mm in a single pour when used as an under plate grout.
- ❖ For thicker sections it is necessary to fill out VGrout 700 with well graded silt free aggregate to minimize heat buildup.
- ❖ Typically 10mm aggregate is suitable. 50 - 100% aggregate weight of **GROUT 700 NS** can be added.
- ❖ Any bolt pockets must be grouted prior to grouting between the substrate and the base plate.
- ❖ Continuous grout flow is essential. Sufficient grout must be prepared before starting.
- ❖ The time taken to pour a batch must be regulated to the time to prepare the next one.

Advantages:

- ❖ Gaseous expansion system compensates for shrinkage and settlement in the plastic state
- ❖ No metallic iron content to cause staining
- ❖ Pre-packed material overcomes on site batching variations.
- ❖ Develops high early strength without the use of chlorides
- ❖ High ultimate strength ensure the durability of the hardened grout
- ❖ Free flow ensures high level of contact with load bearing area

Packaging:

- ❖ 25 kgs

Shelf Life:

- ❖ Shelf life is 6 months from the date of manufacturing. Store at cool & dry place, away from moisture.

Technical Data:

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1	Compressive strength N/mm ²	78 @ 28 days
2	Flexural strength N/mm ²	10.0 @ 28 days
3	Tensile strength	3.5N/mm ² @ 28 days
4	Pull out bond strength	20 N/mm ² @ 28 days
5	Time for expansion	Start : 20 minutes, Finish : 120 minutes
6	Young's modulus	28 kN/mm ²
7	Pressure to restrain	0.004 N/mm ² approx.



8	Fresh wet density	Approximately 2220kg/m ³ depending on actual consistency
9	Dynamic load resistance	Alternate loads of 5N/mm ² & 25N/mm ² at the rate of 500 cycles /minute for two million cycles.

Precautions & Limitations:

- ❖ **Low temperature working:** When the air or contact surface temperatures are 100C or below on a falling thermometer, warm water (30 - 400C) is recommended to accelerate strength development.
- ❖ For ambient temperature below 100C the formwork should be kept in place for at least 36 hours. Normal precautions for winter working with cementitious materials should then be adopted.
- ❖ **High temperature working:** At ambient temperatures above 400 C, cool water (below 200C) should be used for mixing the grout prior to placement.
- ❖ **Fire: GROUT 700 NS** is non-flammable.

Other Product Categories available with VBOND as below

- ❖ VB-Ready Plaster
- ❖ Block Jointing Mortar
- ❖ Premium Tile Adhesives
- ❖ Epoxy Grouts & Unsanded Grouts
- ❖ Water Proofing Products
- ❖ Micro Concrete and Repair Product
- ❖ Industrial/Precision Grout and Anchors
- ❖ Epoxy Flooring
- ❖ Self-level Epoxy Flooring
- ❖ Floor Screeds

Technical Services

Technical assistance information is available by calling the VBOND Technical Service at **+91 96664 96664** or mail us at **vcare@valuebond.in**

Address:

VALUE PACK INDIA PRIVATE LIMITED
(AN ISO 9001-2015 CERTIFIED COMPANY)

Regd Office: Unit G4, Ground Floor
Plot No. 7-6-43/1, SV Landmark, Bollaram
Road Medchal,
Hyderabad, Telangana-500090.

Corp Office: Plot No. 217/A,
Near Metro Station, Calvary Temple Road,
Miyapur,
Hyderabad, Telangana-500049
Factory: Sy. No. 210 & 211, Near A.P. Met



IDA Bollaram, Sangareddy, Telangana-502
325.

Website: www.valuebond.in

CIN NO: U74999TG2014PTC095270

Customer Care

Phone: +91 96664 96664,

Email: vcare@valuebond.in

