

**NuTec**

# GROUT

**HIGH STRENGTH WITH  
FREE FLOW, CEMENTITIOUS  
NON SHRINK GROUT.**

NuTec Grout is general purpose grout used for precision grouting where it is essential to withstand static and dynamic loads and eliminate shrinkage. NuTec Grout is supplied as a ready to use dry powder with a blend of Portland cement, graded fillers and chemical additives and with the addition of a controlled amount of clean water produces a free flowing, non-shrink grout for gap thicknesses up to 100mm.

Specification: ASTM C 1107 & CRD C-621-83

  
**NuTecSol**



## BENEFITS

- Non-shrink with controlled positive expansion prevents shrinkage cracking & contact area loss
- No bleeding and segregation which controls the flow & strength development of the grout
- Excellent for dynamic and static loading conditions
- No metallic iron content to cause staining
- High early strength & quick turn-around saves time
- Pre-packed material overcomes onsite 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



## TECHNICAL DETAILS:

PROPERTIES	SPECIFICATION	RESULTS
Density Kg/m <sup>3</sup>	-	2200 ± 50
Initial Setting Time, Minutes	-	>200
Final Setting time, Minutes	-	<600
Compressive Strength N/mm <sup>2</sup>	BS 1881 - Part 116: 1983	-
1 Day, 7 Day, 28 Day	-	24, 50, 65
Flexural Strength N/mm <sup>2</sup> , 28 days	BS 4551, 1998	10
Tensile Strength N/mm <sup>2</sup> , 28 days	ASTM C 307	5
Pull out Bond strength N/mm <sup>2</sup> , 28 days	BS 1881, Part 207	20
Young's Modulus	ASTM 469 - 94	28 kN/mm <sup>2</sup>
Pressure to restrain plastic expansion	-	0.004 N/mm <sup>2</sup> approx.
Unrestrained expansion	-	2 - 4 % in the plastic state

## APPLICATION PROCEDURE:

- The substrate surface must be free from oil, grease or any loosely adherent material.
- Wash the grouting area with water and saturate it with water before starting the grouting operation
- The formwork should be constructed to be leakproof using foam rubber strip or mastic sealant
- Wet the inside area of PAN mixer with water before starting to mix.
- According to the grout consistency requirement, the water addition for 25 kg bag should be approximately 4.5 litres for flowable consistency and 4.1 litres for dry & trowelable consistency.
- Add approx. 85-90% of measured water (as per water to powder ratio depending upon required consistency) into the mixer and then slowly add the contents of NuTec Grout
- Mix for 1-2 minutes and then add remaining approx. 10-15% of water.
- Allow mixing for additional 2-3 minutes until a smooth, uniform, homogeneous, free flowing mix is achieved.
- Place the grout within 20 minutes of mixing to gain full benefit of the expansion process and can be placed in thicknesses up to 100mm in a single pour when used as an underplate grout
- In unrestrained area it is advised to add 5-10 mm size coarse aggregates and mix them with the grout at the top surface only to prevent cracking while expansion.
- Cover the exposed areas of grout by wet burlap (jute bag) to prevent cracking due to heat generation during curing of grout.

AVAILABLE  
PACKAGING  
SIZES:



25kg

## COVERAGE:

Yield: 13.10 ltr per 40kg bag

### Shelf Life & Storage

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



Manufactured and marketed by  
**NuTecSol Products India Pvt, Ltd.,**

Plot No. 63A, KIADB Industrial Area Phase 2,  
Antharasanahalli, Tumkur-572106, Karnataka

An ISO: 9001 : 2015 Accredited Company

**+91 83103 17294 | +91 86602 58402**

**info@nutecsol.in | www.nutecsol.com**