

NuTec

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NuTecSol

# 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



## 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
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## 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.