Flowable consistency water ratio (IS 516 -1959)	10-10.5%
Type of mixing	Mechanical mixer
Subsequent usage time	24 hours
Expansion % (ASTM C 940)	Nil
Abrasion resistance mm (IS 1237)	0.30
Rapid chloride penetration value (ASTM 1202-03)	Moderate
Bleeding % (ASTM C 940)	Nil
Chloride content	Nil
Pot life	60 minutes
Yield per 40 kg bag @ 10.5% w/p ratio	19-20 litres
Flexural Strength @ 28 Days MPa (ASTMC 348)	9-10
Linear co-efficient of Thermal expansion mm/mm/ Deg C (ASTM C 531)	1 to 2 $x10^{-6}$
Modulus of Elasticity GPa (ASTM C 469)	30-32
Pull Out Bond Strength MPa @ 28 Days (IS 2770)	4-5
Moh's Hardness No. (IS 13630 Part 13)	6-7
Tensile Strength @ 28 Days MPa (ASTM 190)	5.5
Split Tensile Strength MPa @ 28 Days (IS 5816-1999):	2.5

Table for Compressive Strength MPa @ 11% w/p

Test Method	ASTM Method	IS Method
Cube Size	50 mm	70.6 mm
1 day	20-25	15-20
3 day	30-35	25-30
7 day	40-45	35-40
28 day	Up to 60	45-55

Note

Allow a minimum of 24 hours for the subsequent usage. Do not use if temperatures are likely to drop to below 5°C or exceed 50°C. For temperatures below 20°C allow UltraTech **POWERGROUT-NS3** to harden for an extended period of time.

The technical data provided in this technical data sheet is as per our internal lab testing and may vary as per the actual method of application at sites.

Consult UltraTech Building Products Division Technical Services Cell for any further technical assistance.

Packaging

40 Kg bags

Shelf Life

UltraTech **POWERGROUT-NS3** has a shelf life of 6 months from the date of manufacture. Store at cool and dry place.

Safety Directions

UltraTech **POWERGROUT-NS3** is non-toxic. Use of gloves and goggles recommended. Any splashes to the skin or eyes should be washed off with clean water immediately.

In case of prolonged irritation, medical advice should be sought. UltraTech **POWERGROUT-NS3** is non-flammable.

Other Product Categories available with UltraTech Building Products Division

- Tile Adhesives
- Micro Concrete and Repair Mortar
- Industrial/Precision Grout and Anchors
- Plasters and Jointing Mortar
- Floor Screeds
- Autoclaved Aerated Lightweight Concrete Blocks