

UltraTech POWERGROUT

NS3 SP

High Performance Precision Grout

Specialised Product for Sonic Pipes

Series: PGNS30021 | Month: August 2021
Supersedes all earlier TDS

UltraTech POWERGROUT NS3 SP is a cement-based, high performance, pumpable precision grout. It is developed by using special additives & selected fillers. It is recommended for grouting with design strength up to 50 MPa.

Areas of Application

UltraTech POWERGROUT NS3 SP is ideal for grouting of sonic pipe, micropiles, pile caps, shear wall bond beams.

Features and Benefits

- High compressive strength
- Excellent bond strength
- Non-shrink
- Single component; easy to use
- Enhanced flow properties and pot life
- Self-compacting in nature
- Subsequent usage time is 24 hrs depending on ambient conditions

Method of Application

Surface Preparation

- Prepare the surface before the application of UltraTech POWERGROUT NS3 SP by removing oil, bond inhibiting agents, dirt, dust and laitance with suitable methods like by using wire brush, water jetting, mopping, etc.
- Properly check reinforcement and other elements to be grouted as per the structural requirements before placing UltraTech POWERGROUT NS3 SP.
- The shuttering has to be leak-proof and without any gaps or loose material to ensure nil leakage while using UltraTech POWERGROUT NS3 SP.

Mixing

- UltraTech POWERGROUT NS3 SP requires 17-19% potable water by weight of material.
- Add UltraTech POWERGROUT NS3 SP to the measured quantity of water while continuously stirring using a mechanical mixing device. Mix until a thick lump free consistency is achieved.
- Allow the mix to stand for 2-3 minutes to mature and then mix it again before use.
- Do not add more water to alter the mix, consistency or to extend the pot life. Further water addition will hamper the strength and adhesion properties of UltraTech POWERGROUT NS3 SP.

Application

- Ensure that there is no standing water before the grout is poured and the surface is in SSD condition.
- Pour/pump the mixed UltraTech POWERGROUT NS3 SP to the prepared substrate using appropriate pouring/pumping techniques within pot life.
- UltraTech POWERGROUT NS3 SP should not be vibrated with any mechanical vibrator as it is self-compacting.
- Any external vibration will segregate the mix and might impact the product performance from the designed properties.
- Curing is required only for exposed areas.

Technical data

Bulk density	1200-1350 kg/m ³
Fresh wet density	2200-2350 kg/m ³
Water powder ratio	17-19%
Type of mixing	Mechanical mixing (min 400RPM)
Yield per 40 kg bag	17-19 L
Efflux time (in sec)	Less than 30 (Depending upon Temperature and Humidity)
*Mixing at min 400 RPM at 10 min. Tested Under standard lab conditions.	
Pot life	45 minutes
Subsequent usage time	24 hours

Table for Compressive Strength MPa @ 17-19% w/p

Test Method	IS Method
Cube Size	70.6 mm
1 day	> min 15
3 days	> min 25
7 days	> min 35
28 days	> min 45

Note

- Allow a minimum of 24 hours for the subsequent usage. It is recommended to use UltraTech POWERGROUT NS3 SP when temperature is between 20°C to 35°C. For temperature below 20°C, cold weather concreting guidelines and above 35°C, hot weather concreting guidelines to be followed.
- The technical data provided in this technical data sheet is as per lab testing conditions 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.

Shelf Life

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

DISCLAIMER

Information provided in this data sheet is a guideline for usage. Users are advised to undertake a trial for product suitability prior to its full scale usage. There is no implied guarantee/warranty for the results and the company is not liable for any consequential damages

Packaging

40 kg

Safety Directions

- UltraTech POWERGROUT NS3 SP 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 SP is non-flammable.

Other Product Categories

- Waterproofing - SEAL & DRY and WEATHER PRO
- Tile Adhesive & Tile Grout - TILEFIXO and TILEFIXO GROUT
- Plaster & Jointing Mortar - SUPER STUCCO, READIPLAST, BASEKRETE and FIXOBLOCK
- Repair & Rehabilitation - MICROKRETE, MYKROFILL and BASEKRETE
- Flooring - FLOORKRETE
- Autoclaved Aerated Lightweight Concrete Blocks - XTRALITE

UltraTech
BUILDING PRODUCTS

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