

TOUFFGROUT-NS28

HIGH BUILD NON SHRINK GROUT

TOUFFGROUT NS28 is a premixed ready to use high strength cementitious non-shrink grout for supporting machinery and equipment. It is formulated with Air Release technology that combines high performance with the greatest reliability. When tested in accordance with ASTM C 827, TOUFFCRETE NS28 Grout exhibits positive expansion. TOUFFCRETE NS28 Grout meets the performance requirements of ASTM C 1107-02 Grades A, B and C, ASTM C 1107-07, and CRD-C 621-93 specifications for non-shrink grout over a wide temperature range, 40°F - 90°F (4°C - 32°C)

APPLICATION FIELD

- Grouting of machinery and equipment to maintain precision alignment
- Non-shrink grouting of structural steel and precast concrete
- Grouting of anchors and dowels
- Support of tanks and vessels
- Available for Nuclear Safety Zone applications
- Assembling of precast panels, grip-filling
- Repairing of concrete structures

ADVANTAGES

- Air release technology per ACI 351.1 R
- 95% Effective Bearing Area (EBA) is typically achieved following proper grouting procedures
- Provides placement versatility: pour, pump or dry pack
- 60-minute working time
- Permanent support for machinery requiring precision alignment
- Does not contain gas generating additives, such as aluminum powder
- Non-shrink from the time of placement

TECHNICAL PROPERTIES

Compressive strength	(after 1 day)	28N/mm ²
	(after 3days)	35N/mm ²
	(after 7 days)	45N/mm ²
	(after 28days)	78N/mm ²
Flexural strength	(after 28days)	94N/mm ²
Setting time	6-8 hours	at 20°C
Wet density		2500kg/m
Expansion	(ASTM C827)	+0.2%

APPLICATION PROCEDURE

Preparation

The surface onto which the grout is to be applied should be TOUFFGROUT NS28 to remove laitance and expose aggregate. Do not use bush hammers or similar preparation equipment that can crush the aggregate but leave it in place. The surface must be free of oil, dust, dust, paint, curing compounds etc. soak area to be grouted with water for 24 hours prior to grouting to minimize localized absorption and to assist in the free flow of the grout surface should be damp but free of standing water. Particular attention should be paid to bolt holes to ensure that these are water-free. Use oil free compressed air to blow out bolt holes and pockets as necessary.

Base plates, bolt, etc. must be clean and free of oil, grease, paint residual curing compound or other contaminants that could impair adhesion. Set and align equipment. If shims are to be removed after the grout has set, then lightly grease them for easy removal

Ensure formwork is secure and water tight to prevent movement and leaking during the placing and curing of the grout. The area should be free of excessive vibration. Shut down adjacent machinery until the grout has hardened priming.

Prior to placing of TOUFFGROUT NS28 soak the mixing. One bag 25kg of TOUFFGROUT NS28 requires 3.17-3.75 liter of clean water. In hot climate, use of cold water is recommended. Mix in a suitable size drum using an approved spiral paddle at a slow speed (400/500rpm) with a heavy-duty drill is recommended. Pour required amount of water in the mixer followed by TOUFFGROUT NS28. Mix for 3 minutes to get a homogeneous and consistent mixture.

Placing

The mixed material should be placed within 30minutes. It can be poured or pumped on to the repair area to fill the cavity at the required level. No vibration is required. After concrete has initially set, the surface may be finished to the desired texture.

Curing

Start curing TOUFFGROUT NS28 with clean water or TOUFFGROUT NS28 immediately after finishing and formwork is stripped.

Packing

25Kg bag

Storage and Shelf life

Start under cover, out of direct sunlight and protect from extreme temperatures. In tropical climate the product must be stored in air-conditioned environment. The shelf life is one year.

