

Maxx Powergrout – 80

High Precision, Non Shrink, Pourable & Flowable Cementitious Grout

Description

MAXX POWERGROUT- 80 is a cement based ready to mix, high early strength, non shrink, pourable & flowable, high quality binder for precision grouting applications in engineering objects subjected to static and dynamic loads.

Uses

- To grout bearings, machine foundations, columns joints in precast construction etc. ▪
- To grout anchors in concrete
- To grout cavities, gaps and voids in concrete
- To grout base plate of turbine, compressor, boilers, pumps and heavy machinery.
- Sealing around penetrations
- For fixing and anchoring the precast elements.

Features & Benefits

- Non Shrink, Non Expandable Grout
- Develops very high early and final strengths
- Excellent bond strength
- Very good flow characteristics
- Non – Corrosive
- Consistent in quality
- Shrinkage Compensated
- Chloride free

Method Of Application

- The substrate shall be thoroughly clean, free from dust, loose material, laticence with suitable methods like by using wire brush, water jetting, mopping etc.
- Proper checking of reinforcement and other elements to be grouted need to be carried out as per the structural requirements before placing MAXX POWERGROUT-80. The shuttering has to be proper without any gaps or loose materials to ensure nil leakages during the MAXX POWERGROUT-80 usages.

Mixing

- MAXX POWERGROUT – 80 can be mixed with a low speed (< 500 rpm) hand drill mixer to avoid entraining too much air. Mix only full bags for best results. Pour around 80 to 90% of the recommended water in a suitable mixing container. While stirring slowly, add the powder to the water and mix thoroughly at least for 3 minutes adding balance water within the mixing time to the maximum specified amount to adjust the grout to the required consistency and flow properties. Do not mix more grout, which cannot be used within pot life. Do not add extra water.

Application

- Remove excess water from substrate surface e.g. with clean sponge, until surface is dark matt in appearance without glistening (saturated surface dry). Surface pores and pits shall not contain water. Let the grout stand for 5 minutes to release air entrained by mixing. Pour grout immediately after mixing into the prepared openings using a sufficient pressure head to maintain a continuous flow of grout. Ensure air displaced by the grout can easily escape, otherwise entrapped air will prevent full contact grouting. For optimum use of the expansion properties apply the grout as quickly as possible, within ~15 minutes after mixing.

Placing

Placing Make sure that the necessary formwork is firmly placed and watertight. Pour grout within 15 minutes after mixing to gain full benefit of the expansion process. During the pouring process, ensure that a good hydrostatic head is maintained to keep the flow of the grout continuous and entrapped air displaced by the grout is allowed to escape. Maxx powergrout 80 may be placed in thickness up to 100mm in one pour. For thicker sections more than 100mm, it is necessary to use well-graded aggregates typically a 10mm size to minimize heat buildup. Quantities of aggregate added to the mix should not exceed one part aggregate to one part Maxx powergrout 80 by weight.

Curing

On completion of the grouting operation, exposed areas should be thoroughly cured by means of water application.

Compressive Strength

W/P ratio: approx.0.14 to 0.15 (Flowable), (Water curing after one day)

Days	Compressive Strength
12 Hrs air curing	>16N/mm ²
1 day air curing	>42 N/mm ²
3 day	>63 N/mm ²
7 day	>72 N/mm ²
28 day	>80 N/mm ²

Flexural strength @28 days	12 N/mm ²
Tensile strength @ 28 days	4 N/mm ²

Packaging

Maxx Powergrout 80 supplied in 20 kg BOPP bag.

Storage & Shelf Life

12 Months if stored in cool dry place, unopened condition and under shaded area

Health & Safety

Maxx Powergrout 80 should be applied with gloves and care should be taken to see that it does not fall on skin or eyes. Splashes on to eyes have to be immediately washed with plenty of clean water and medical advice has to be taken