

Description:

D+ FOUNDATION GROUT is supplied as a ready to use dry powder. The addition of a controlled amount of clean water produces a free flowing, non-shrink grout. D+ FOUNDATION GROUT is a blend of Portland cement, graded fillers and chemical additives which impart controlled expansion in the plastic state whilst minimizing water demand. The low water demand ensures high early strength. The graded fillers are designed to assist uniform mixing and produce a consistent grout.

Uses:

- For precision grouting where it is essential to withstand static and dynamic loads
- Grouting of base plates of turbines, compressors, boiler feed pumps etc.
- For anchoring a wide range of fixings these include masts, anchor bolts and fence posts

Advantages:

- Gaseous expansion system compensates for shrinkage and settlement in the plastic state
- No metallic iron content to cause staining
- 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

Method of application:

- The substrate surface must be free from oil, grease or any loosely adherent material. If the concrete surface is defective or has laitance, it must be cut back to a sound base.
- Immediately before grouting takes place any free water should be removed with particular care being taken to blow out all bolt holes and pockets.
- The formwork should be constructed to be leak proof.
- Generally the gap width between the perimeter formwork and the plate edge should not be more than 75mm.
- For best results a mechanically powered grout mixer should be used.
- Place the grout within 20 minutes of mixing to gain full benefit of the expansion process
- For thicker sections it is necessary to fill out D+ FOUNDATION GROUT with well graded silt free aggregate to minimize heat buildup.
- Sufficient grout must be prepared before starting. The time taken to pour a batch must be regulated to the time to prepare the next one.

Technical information:

Properties	Results
Appearance	Grey coloured powder
Density	2200 to 2250 Kg/m ³
PH value	7 to 8
Compressive strength	>25 N/mm ² @ 1 day >45 N/mm ² @ 7 days >60 N/mm ² @ 28 days
Tensile strength:	>3.5N/mm ² @ 28 days
Flexural strength	>10N/mm ² @ 28 days
Coefficient of thermal expansion	11 x 10 ⁻⁶ / °C
Time for expansion Start:	20 minutes
Finish:	120 minutes

Limitations:

Low temperature working: When the air or contact surface temperatures are 10°C or below on a falling thermometer, warm water (30°C - 40°C) is recommended to accelerate strength development.

High temperature working: At ambient temperatures above 40°C, cool water (below 20°C) should be used for mixing the grout prior to placement.

Curing: On completion of the grouting operation, exposed areas should be thoroughly cured. This should be done by the use of D+ WCC curing membrane, continuous application of water and/or wet hessian.

Packaging:

D+ FOUNDATION GROUT is supplied in 40 kg bags. Storage: Minimum of 6 months shelf-life if kept under room temperature (i.e. 27°C).

Precautions: Health and Safety D+ FOUNDATION GROUT is alkaline and should not come into contact with skin and eyes. Inhalation of dust during mixing should be avoided. Gloves, goggles and dust mask should be worn. If contact with skin occurs, it shall be washed with water. Splashes to eyes should be washed immediately with plenty of clean water and medical advice sought.

*All recommendations for use of our products, whether given by us in writing, verbally are to be implied, from the results of tests carried out by us, based on the current state of our knowledge. Although the information contained in this sheet is accurate to the best of our knowledge, no liability can be accepted in respect of such information and no warranty or conditions are intended in respect of the products described, as the conditions of application are beyond our control.

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