

Non-shrink free flow ultra high strength grout

Uses

For heavy duty support beneath load bearing units especially where high static and dynamic forces occur. Also as an efficient medium for transferring all operational loads to the foundation. For effective grouting of base plates and bolt pockets of Turbo Generators, Diesel Generating Sets, Crane and Transporter Rails even with high wheel loadings, Heavy Reciprocating equipments, compressors, pump sets, pulverising mills, metal shearing and processing machines, steel rolling mill beds, cement, textile, granite and paper plant machinery.

Advantages

- Non shrink - Will continue to occupy the filled spaced without shrinkage. Both Plastic and Hardened shrinkage compensated.
- High strength - Can be used under heavy duty machines and equipment with high operational and static loads.
- Free flow - Ensures high level of contact with load bearing areas. Also helps complete filling without voids. No need for external aids like rodding, poking, chaining etc.
- Prepacked and factory controlled : Consistency and reliability ensured. Site batching and blending variations eliminated.
- Chloride free : Does not cause corrosion of machine parts, anchor bolts etc., in contact with grout.

Description

Conbextra UHS90 is supplied as a ready-to-use dry powder, requiring only the addition of water to produce a free flowing non-shrink grout. The material is a blend of specially processed cement, pre-graded fillers and additives which impart.

- High early and final strengths due to very low water requirement.
- Controlled expansion to retain the original volume filled even after setting.
- Free flow characteristics without any segregation and bleeding.

Conbextra UHS90, on setting, will have a micro-cellular structure with high frost, fire and oil resistance.

Technical Properties

All the tests conducted at water:powder ratio of 0.12

Flow Characteristics using Flow Channel as per EN13395-2

Initial	: 40 - 50 cm
30 Mins	: 30 - 40 Cm

Grouting Height : 30 - 150mm

Fresh wet density : 2400 Kg/m³

Compressive strength (N/mm²) as per IS 4031 Part 6. using 70.6mm Cubes, Cubes to be restrained

12hrs	16hrs	1day	3days	7days	28days
15	30	40	60	70	90

Flexural strength using 40 x 40 x160mm Prisms
28Days : 11.0 N/mm²

Tensile strength as per BS 6319 Part 7
28 Days : 6.0 N/mm²

Young's modulus : 28 KN/mm²

Unrestrained Plastic Expansion : 0 - 2 %

Hardened Expansion - ASTM C1090 : 0 - 0.3 %

Note : It is necessary to restrain free grout edges over 50mm wide. Otherwise unrestrained expansion may lead to some cracks

Application guidelines

A few DO's and DON'Ts

DO's

- Measure water precisely
- Mix mechanically
- Use mixed grout within 30 minutes
- Clean concrete and steel surfaces thoroughly before grouting
- Build a strong, carefully designed leakproof shuttering
- Start curing when grout reaches 'touch-hard' state
- Cure properly for atleast 7 days

DON'T

- Mix cement, sand, fibres, admixtures, etc., with Conbextra UHS90.
- Mix water more than specified
- Pour grout from two sides while grouting base plates
- Pour grout from a height

Conbextra UHS90

- Use vibrators in grout
- Use damaged bags of Conbextra UHS90

Detailed application procedure will be supplied separately prior to usage.

Estimating

Packaging

Conbextra UHS90 is supplied in double lined HDPE bags in 25 kg weight.

Yield

One bag of Conbextra UHS90 will yield 11.5 litres at flowable consistency.

Shelf life

6 months when stored under cool dry conditions.

Precautions

Health & Safety

Conbextra UHS90 is non-toxic, but alkaline in nature. Gloves should be worn while handling this product. Splashes on grout on the skin or eyes should be washed off with clean running water. In the event of prolonged irritation, seek medical advice.

Additional information

In addition, Fosroc manufactures a range of products which includes admixtures, curing compounds, flooring products, repair and protection systems, sealants and waterproofing

Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.



Berger Fosroc Limited

Corporate Address:

'Berger House', House # 08, Road # 02, Sector # 03, Uttara Model Town, Dhaka 1230, Bangladesh.

telephone(Hunting) : +880248953665, fax : +880248951350,

e-mail : enquiry.bangladesh@bergerfosroc.com, website : www.bergerfosroc.com

