



Conbextra® Spl(M)

Non-metallic, non-gaseous, shrink resistant 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 space without shrinkage
- **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
- **Non metallic** : Does not contain any metallic powder or iron fillings.
- **Non gaseous** : The expansion system does not generate any gas.

Description

Conbextra SPI(M) 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, pregraded 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 Spl(M), on setting, will have a microcellular structure with high frost, fire and oil resistance.

Properties

Compressive strength (N/mm²)

	1 day	3days	7days	28days
Flowable (W/P 0.16)	35	55	70	80
Pourable (W/P 0.14)	40	65	80	90

Note : Cubes cast are kept under restraint before testing, to simulate site conditions. Size of the cubes used 70.6mm x 70.6mm x 70.6mm tested at 30°C.

Tensile strength : At 28 days tensile strength achieved is typically 3.5 N/mm² at W/P 0.16.

Young's modulus : 28 kN/mm²

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

Coefficient of Thermal expansion : 11 x 10⁻⁶ per °C

Fresh wet density : At flowable consistency - 2300kg/m³

W/P ratio : Recommended water powder ratio for flowable consistency is 0.16. Total quantity of water required for 25 kg bag is 4 litres. For pourable grade, a water powder ratio of 0.14 is recommended.

Flow characteristics : The maximum distance of flow is governed by the gap width and the head of the grout. Typical data for flow design, assuming grout is poured immediately after mixing, is given in the table below :

Grout Consistency	Gap Width (mm)	Max. flow distance in mm		
		50mm head	100mm head	250mm head
Flowable	30	200	1000	2000
	40	500	1500	2500
	50	1000	2000	3000

N.B : This table is based on the following factors.

Temperature : 30°C; Water saturated substrate; Minimum unrestricted flow width : 30mm.

Expansion characteristics: The grout compensates shrinkage in both plastic and hardened states and ensures the material continues to occupy the original volume. Expansion of upto 0.5% in the hardened state and upto 2% in the plastic state.

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Application guidelines

A few DOs 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 - within 4 - 6 hrs.
- Cure properly for at least 7 days.

DON'Ts

- Mix cement, sand, fibres, admixtures, etc., with Conbextra Spl(M)
- Mix water more than specified
- Pour grout from two sides while grouting base plates.
- Pour grout from a height
- Use vibrators in grout
- Use damaged bags of Conbextra Spl(M)

Detailed application procedure will be supplied separately prior to usage.

Packaging

Conbextra Spl(M) is supplied in double lined HDPE bags in 25 kg weight

Yield

One bag of Conbextra Spl(M) will yield 12.5 litres at flowable consistency

Shelf life

6 months when stored under cold dry conditions

Precautions

Health & Safety

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

Technical Service

An experienced technical advisory team is available to give technical service on request.

Additional information

The Fosroc range of associated products includes Admixtures, Floorings, Protective coatings, Repair and Protection systems, sealants and waterproofing compounds Adhesives & Mining. Separate datasheets are available on these products.

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