

COSTARBEX 100

Expanding Admixture for Increased Cohesion in Cementitious Grout

Description

Costarbex 100 is combination of a plasticizing agent which allows the use of a reduced water/cement ratio with consequent increased strengths and durability and a gas producing expansion medium. The expansive medium counteracts the natural settlement and plastic shrink- age of the grout and aids stability and cohesion.

Benefits

- Easy placement of grout
- Costarbex 100 is used as an admixture for cementitious grouts for increased cohesion
- High early strength development in grouts, without the use of chlorides.
- Reduced water/cement ratio mixes in the grout mix ensuring low permeability and long term durability in service.

Uses

- It is also used where a reduced water/cement ratio and positive expansion is required.
- It is suitable for use in the grouting of bearing plates, tunnel linings, non-shrink crack injection etc.
- Applications include bed grouting, duct grouting, non-shrink infilling and jointing

Mixing

For best results a mechanically powered grout mixer must be used. For quantities up to 50kg, a slow speed drill fitted with a high shear paddle is recommended. Large quantities will require a high volume drum mixer. It is essential that machine mixing capacity and labor availability is adequate to enable the grouting operation to be carried out continuously. The selected water content should be accurately measured into the mixer. The cement (and sand if required) shall be slowly added to Costarbex 100. Mixing should be done for 5 minutes to ensure a smooth even consistency.

Application

Ensure that areas to be grouted are clean, sound, and then pre-wetted. The unrestrained surface area of the grout must be kept to a minimum. The grout shall be placed within 20 minutes of mixing to gain the full benefit of the expansion process. Usual placing or pumping procedures shall be adopted ensuring a continuous operation.

Curing

On completion of the grouting operation, any exposed areas which are not to be cut back should be thoroughly cured by means of water application or CostarCure.

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Dosage

OPC	Concreting Sand	Water	Costarbex 100	Approx. Yield
50kg	-	20-22 litres	225 g	36 litres
50kg	50 kg	22-24 litres	225 g	57 litres

Note : For grout, mortar or concrete mixes with an aggregate / cement ratio more than 1, 4 x 225 g units of Costarbex 100 per 100 kg of cement, shall be used.

Effects of Overdosing

Overdosing of Costarbex 100 increases expansion and may cause frothing.

Shelf Life

Costarbex 100 has a shelf life of 12 months if kept in a dry store in its original packing. High temperature and humidity storage may reduce

Packaging

20kg Bag

Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

