

YASH FLOW EX



Yash Flow EX

Expansive and plasticising grout admixture
(Formerly known as Flow EX)

Description

Yash Flow EX is an expansive and plasticising admixture for cementitious grout where a low water to cement ratio and positive expansion are required.

Applications

Yash Flow EX is ideally designed for use in the following applications:

- + Bed plate grouting.
- + Duct grouting.
- + Grouting tunnel lining.
- + Non-shrink infilling grouts.
- + Post tensioned cables.

Advantages

- + Non-Shrink: Gaseous expansion system compensates for plastic shrinkage and settlement in cementitious grouts.
- + High Flow: Excellent grout fluidity at reduced water to cement ratio, for ease of placement or injection.
- + Durability: Low water to cement ratio ensures low permeability and long term performance.
- + Chloride free.
- + Iron free.

Method of Use

Proposed Mix

Yash Flow EX		Water	Yield
OPC	Sand	- 20 ± 2 36 ltr	
200 g	50 kg		
200 g	50 kg	50 kg	22 ± 2 56 ltr

Note: For grout, mortar or concrete mixes with an aggregate cement ratio more than 1, use 2 x 200 g units of Yash Flow EX per 50 kg of cement.

Mixing

To ensure proper mixing, a mechanically powered mixer or drill filled with suitable paddle should be used for quantities up to 50 kg. High shear vane mixer is required when mixing large quantities.

Technical Properties:

Compressive strength: ASTM C109/109M-11	@ 7 days > 40 MPa (without sand) > 45 MPa (with sand) @ 28 days > 50 MPa (without sand) > 55 MPa (with sand)
Expansion: ASTM C827/C827M-10	Up to 6%
Flow characteristics: ASTM C939-87 within 30 min from mixing. Re-mixing is needed to keep the needed flow	< 32 sec
Colour:	Brown
Chloride content: BS5075	Nil
Compatibility: Yash Flow EX is compatible with all types of Portland cement	
Note: Compressive strength @ 1 day is under restraint. The above compressive strength results are based on 52.5 cement type.	

The required water content should accurately measured and added into the mixer. While mixing, add Yash Flow EX, then slowly add the cement (and sand if required). Mix for 5 minutes until smooth even consistency is achieved.

Placing and Finishing

Enough materials should be available to achieve continuous fill and to complete the work. Pouring of the mixed grout should be started from one side only to avoid air entrapment. Areas to be grouted should be clean, sound and must be pre-wetted with clean water. The mixed grout should be placed directly after mixing. Working time will be within 30 minutes and remixing will be needed directly before the application to get the needed flow and expansion. Care should be taken to keep the unrestrained surface areas of the grout to a minimum.

Packaging

Yash Flow EX is available in 0.200 and 5 kg bags.

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Dosage

Yash Flow EX dosage is 200 g/50 kg of OPC.

Storage

Yash Flow EX has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, YASH Technical Department should be contacted for advise.

Cautions

Health and Safety

Yash Flow EX is of low hazard and may cause irritation to skin or eyes.

In case of accidental contact with skin or eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advise if necessary.

Fire

Yash Flow EX is nonflammable.

More from YASH COCNHEM Products

A wide range of construction chemical products are manufactured by YASH which include:

- Concrete admixtures.
- Surface treatments
- Grouts and anchors.
- Concrete repair.
- Flooring systems.
- Protective coatings.
- Sealants.
- Waterproofing.
- Adhesives.
- Tile adhesives and grouts.
- Building products.
- Structural strengthening.