

Intraplast®-CFG

Expanding Cable Flow Grout Admixture

Product Description An expanding cable flow grout admixture in powder form. Introduces micro bubbles into the mix thereby promoting wet volume expansion. Improves fluidity of mix without segregation.
Suitable for tropical and hot climatic conditions

Uses **Intraplast®-CFG** is used to increase cohesion in cement grouts (addition of sand is possible). **Intraplast®-CFG** develops nitrogen gas. **Intraplast®-CFG** can be used for grouting of:

- Post tensioning cables
- Pre-stressed cable ducts
- Rock and concrete anchor bolts

Advantages **Intraplast®-CFG** provides the following properties:

- Improved fluidity
- Increased cohesion
- Volume expansion in the wet state
- Slight retardation

Test Report Complies with BS 8110: Part 1, ASTM C 938, ASTM C 940.

Product Data

Type Blend of organic and inorganic chemicals

Form Light Grey powder

Packaging 10 kg bags

Storage Condition Store in moisture tight, closed and undamaged original containers at temperatures between + 5°C and + 35°C away from direct sunlight.

Shelf life 12 months minimum from production date if stored properly in original unopened packaging.

Technical Data

Chloride Content Nil (EN934)

Density 0.80 – 0.90kg/lt

Dosage 4 – 5% by weight of cement



Physical PropertiesExamples of properties of cement pastes containing 4% of **Intraplast®-CFG**:

OPC (used)	w/c ratio	Flow-Cone Test [sec.] ⁽¹⁾			Bleed water [%] ⁽²⁾	Expansion at 1 day [%] ⁽²⁾	Temperature [°C]		Strength [MPa]	Strength [MPa]
		0'	1h	2h			Water	Water	1 day	28 days
		0'	1h	2h						
Cement 1	0.34	27	32	45	0.08	0.09	25	30	35.5	72
Cement 2	0.34	25	35	40	0.15	0.08	26	30	39.5	78

(1) Flow Cone Test complying with ASTM 939-94

(2) Test complying with ASTM C 940-89

Application**Dispensing**

Add directly to the cement/water mix in the mixer. Sand may be added as required.

Mixing

The most effective mixing sequence for lump free, homogeneous grout has proven to be: water, cement and finally the admixture.

PropertiesThe main properties of grouts containing 4-5% of **Intraplast®-CFG** can be summed up as follow:

- Very high flowability (as measured by the Flow Cone Test) with no or very little bleed water.
- The pumpability of the grout is assured for at least two hours at + 25 to 30°C.
- High mix water retention. This very important property imparts high cohesion to the very flowable mix. Under vacuum, of 600 mm Hg, over 90% of the water is retained by the flowable grout. Inadequate water retention would allow water to separate from solid components when the grout is forced through strands of tendons.

Cements containing fly ash are unsuitable.

Remarks

For optimum results, ensure a substrate and ambient temperature of + 5 to + 40°C.

In hot summer temperatures extra precautions are recommended:

- Condition materials at room temperature before use
- Use chilled water for mixing
- Saturate ducts with chilled water prior to grouting
- Pump grout immediately after dust saturation

Notes

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Safety

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notes

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