



CONPLAST X421M

High Performance Integral Waterproofing For Concrete that contain Hydrophobic Properties

Uses

To watertight the concrete such as structural and precast concrete, rendering, screeds and granolithic topping. Ideal to be used for basements, swimming pools, concrete roof, ground tank, reservoir, etc.

Advantages

- Watertight – minimize penetration water into concrete
- Increase plasticity – easy workability
- Contain Hydrophobic agent that reduce permeability and absorption
- Integral – not a membrane or surface film and its properties maintained when the surface damaged.
- Chloride free

Description

Conplast X421M is a brown liquid material instantly dispersed in water that is added to concrete to inhibit passage of water, contains a non-air entraining plasticizer to assist optimum compaction.

Technical Support

Fosroc provide technical advisory service on site assistance and advice for admixture selection, evaluation on trial or dispensing equipment.

Overdosing and others dosage

An over dosage of Conplast X421M will result in long setting and segregation of the concrete. Consult to Fosroc department to ensure optimum of dosage and should be obtained by trial in site

Properties

- Properties are typical under laboratory conditions and do not constitute specification. Fields trials are recommended.
- This product based on our understanding, does not give impact on 28 days and above compressive strength of Concrete.

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| Appearance | : Brown liquid |
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|----------------|---------------------|
| SG at 25+/-2 C | : approx. 1.15-1.16 |
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| | |
|------------------|---------------------------------|
| Chloride Content | : Nil (Not intentionally added) |
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|--------------------|---|
| Water permeability | : < 5cm, test method according to DIN EN12390-8:2009-07 |
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| Water Absorption | : < 5%, test method according to BS1881:Part122:1983 or ASTM C642 |
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Curing

Good curing methods should be used, such as water spray, wet hessian or use FOSROC CONCURE series.

Recommended mix proportion

| | |
|---|-----------------------|
| Cement+Cementitious minimum | 350 kg/m ³ |
| W/C Ratio maximum (Contacting to fresh water) | 48% |
| W/C Ratio maximum (contacting to sea water) | 44% |
| Initial slump | 10 ± 2 cm |
| Typical Final slump | 18 ± 2 cm |
| Dosage per Weight of Cement | 0.4 – 1.2 % |



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Specification clauses

Concrete mix design shall be consist of:

- Cement BS12, ASTM150 (OPC)
- 5-20mm Grade gravel aggregate to BS 882, ASTM C33
- Grade M washed sand to BS 882 or other Reference Standard
- The concrete shall be fully compacted by mechanical vibration and shall be then cured using FOSROC CONCURE curing membrane, wet hessian or damp sand.

Joint

Swellable waterstop SUPERCAST SW 10/30 or SUPERCAST PVC are recommended to provide an integral sealing system for construction joint.

Packaging

Conplast X421M is supplied in 20 liter pails and 210 liter in drums. Other packaging available on request.

Storage

Conplast X421M has shelf life of 12 months provided the in and outside temperature within 20 to 35 °C in its original packaging.

Precautions

Health and Safety

CONPLAST X421M cause skin and eye irritation and must not be ingested. For detail, refer to Safety Data Sheet.



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Important note

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