

TECHNICAL DATA GUIDE- CONCRETE ADMIXTURE

CPROOF 111

Integral water proofing compound for concrete and mortar

DESCRIPTION

CPROOF 111 is an integral water proofing compound based on refined lignosulphonates and surface active agents. It is formulated to attain high resistance to water ingress. The product also has plasticizing effects in concrete.

CPROOF 111 confirms to performance requirements of BIS 2645-2003, BIS 9103-1999 and ASTM C 494

TYPICAL APPLICATIONS

- In structural concrete, screed concrete and mass concrete.
- In mortars and plasters used for rendering.
- For Roof slabs, Terrace slabs and balconies.
- For Basements, Toilet floors, Water tanks, Swimming pools & Silos.
- For water retaining structures such as sumps, canal, culverts, dams.

FEATURES AND BENEFITS

- Improved durability as it reduces water permeability in concrete under hydrostatic pressure or capillary absorption.
- Reduces water demand, minimizes segregation and bleeding even if harsh aggregates are used.
- Increased workability & slump retention, imparts cohesion and eases pumping of concrete
- Reduced shrinkage cracks in plasters and improved surface finish.
- Does not affect compressive strength.

PERFORMANCE TEST DATA

Appearance	Dark brown free flowing liquid
Relative density	1.16 ± 0.2 @25°C
pH	≥6
Chloride ion content	≤ 0.2%

DOSAGE AND DIRECTIONS FOR USE

Normal dosage rates of CPROOF 111 varies between 0.2% - 04% by weight of cementitious material.

Optimum dosage of CPROOF 111 should be determined by trials.

Exact dosage rate depends on

- The quality & quantity of aggregates
- W/C ratio
- Ambient temperature
- Conveying, placement & consolidation techniques.

Noticeable delayed retardation occurs when used in high dosage, when sulphate resisting cements/ supplementary cementitious materials are used and when ambient temperatures are low.

RE-DOSING OF ADMIXTURE

Depending on the slump requirement an additional dose of say up to 0.1 % W/C may not adversely affect the ultimate strength of concrete and may also achieve higher strengths than normal concrete.

EFFECTS OF OVERDOSING

Severe overdosing of CPROOF 111 (Say 0.2 to 0.4%) can lead to;

- High workability mixes with segregation & bleeding,
- Prolonged duration of initial and final set times,
- Increased air entrainment and plastic shrinkage cracks.

Please consult Technical Department of CBS Chemicals for recommendation before placing concrete overdosed with admixtures.



COMPATIBILITY

CPROOF 111 is compatible to be used in combination with SNF & PCE admixtures, air entrainers, accelerators, curing compounds, retarders, corrosion inhibitors and shrinkage reducing admixtures, however it should be dispensed separately.

PACKAGING

CPROOF 111 is supplied in 210 Ltr HDPE drums, Alternatively 1000 Ltr totes and bulk deliveries can be arranged

STORAGE & SHELF LIFE

CPROOF 111 should be stored in a shaded cool and dry place. Shelf life of CPROOF 111 is 12 months from the date of manufacturing if kept in unopened, undamaged, original sealed packaging and kept within the range of 10°C to 50°C. If the product is frozen, thaw at +5°C or above and remix with mild agitation.

Failure to comply with recommended storage may deteriorate the product or packing.

HEALTH & SAFETY

CPROOF 111 is water based, non-flammable and non-hazardous. However it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting. For further information refer to the material safety data sheet

DISCLAIMER

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