CEMSEAL®
...Building on over 200 years' experience

CEMPROOF WP+

Liquid integral waterproofing compound

DESCRIPTION

CEMPROOF WP+ integral waterproof contains a blend of specialised chemicals which when incorporated in concrete reduces permeability and facilitates the construction of water tight structures. It makes the concrete waterproof to resist both hydrostatic pressure and capillary absorption. It Conforms to IS:2645:2003 and IS:9103:2000 Standards.

SPECIAL PROPERTIES

- Resistant to penetration of water both under: a) Hydrostatic pressure b) Capillary action.
- Initially alkaline; has no corrosive effect on reinforcement in mass concrete.
- Is water retentive and thus aids curing, ensuring maximum strength.
- Reduces attack by water-borne aggressive conditions.
- Improves cohesive properties of concrete reducing segregation and bleeding.
- Helps reducing crazing in rich mixes by controlling rate of water evaporation.
- Aids in achieving better surface finish.

TYPICAL APPLICATION

Waterproofing structures against ground water pressure

Rendering should be composed of 2.5-3 parts of sharp sand to 1 part cement by Volume.
Add 200ml. CEMPROOF WP+ per 50 kgs cement and gauge the mix as stiff as possible to minimize the risk of cracking of the rich mix. Never apply a strong mix on a weak backing.

Apply renderings in two coats at a total thickness of between 20-25 mm (approx 0.75" -1"). 200 ml of CEMPROOF WP+ should be added to each 50kg. cement The mix should be gauged dry. Apply the first coat of rendering and extend over floor for a distance of approx. 30cm (approx 1 ft) from the internal wall floor angle.

Apply the second coat rendering and butt joint to floor forming a cove at the internal angle. The finishing coat of rendering should be closed with a steel trowel. It is not possible to apply First rendering coat over the total wall area in one day, necessitating the formation of joints, the joints should be formed at least 60 cm (approx 2 ft) away from the internal wall angles, and in the application of the finishing wall rendering coat, joints in same should be staggers away from joints in first rendering coat.

WATERPROOFING MASS CONCRETE

For normal condition mix proportions at 1 part O.P.C. cement, 2 Parts of Zone 2 concreting sand to 4 parts coarse aggregate plus 200ml of CEMPROOF WP+ taking care to reduce the water content (water cement ratio) of the mix. It is absolutely essential to keep joints in the concrete stepped and a P.V.C. water bar should be used where appropriate.

EXTERNAL WATERPROOF RENDERING

Apply a rendering 18-20 mm (approximately 3/4" thick) in two coats a mix comprising one part OPC cement to three parts clean, sharp washed sand adding 200 ml CEMPROOF WP+ per 50 kg cement. It is preferable to scrape finish water proofed renderings to minimize any tendency to crack.

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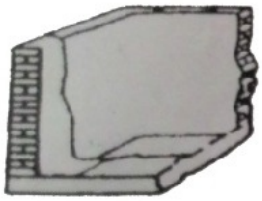
ROUGH CASTWORK

The backing coat should be composed of 3 parts of clean sharp send to 1 part portland cement by volume, plus the addition of 200 ml CEMPROOF WP+ per 50 kg cement-this rendering should be applied to ensure that the scratch marks do not pierce the rendering. This should be followed with the application of a normal rough-cast finish, but if it so happens that the building is standing in an exposed position, It is advantageous to use CEMPROOF WP+ with the Finishing rough cast coat mixing in the preparation of 200ml CEMPROOF WP+ to 50kg cement.

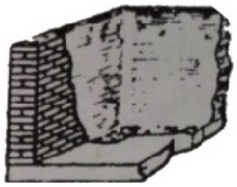
SWIMMING POOLS AND TANKS etc

Care should be taken to ensure that joints are staggered and corners coved. See illustration (1) & (2) Method of Waterproofing Swimming Pools, etc.



Apply 20mm (3/4) thick water proofing rendering over floor scratch to from a key and cove angels

Illustration (1)



Apply 20-25mm (3/4''-1'') thick water proofing rendering over walls stoped 15cm (6") from wall angels. when set apple finish 7mm (1/4'') to walls joining up with floor and cove angles

Illustration (2)

Properties	Results
Appearance	Free flowing liquids
Color	Wine red
Specific Gravity(@25 C)	1.05+0.02 gms/cc
Solid Content	13 + 0.5%
pH value	11 to 13

DOSAGE

200ml per 50kg. bag of cement

For CEMPROOF WP+ to perform satisfactorily, it is essential that the water added to mix is the minimum as the quality of water required is dependent upon so many factors, it is impossible to state how much water is necessary and therefore we cannot quote a dilution figure for CEMPROOF WP+ Liquid. When preparing small mixes, the best procedure is to dilute the required amount of water ,then use the remaining water to bring mix to the correct consistency or slump..

SPECIFYING

"CEMPROOF WP+ " should be specified by name and used as detailed.

DIRECTION FOR USE

CEMPROOF WP+, Liquid is to be mixed with the gauging water or the wet mix, but never to the dry mix.

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PRECAUTION

Avoid prolonged skin contact. Avoid ingestion.

SAFETY PRECAUTIONS

- As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately.
- If accidentally ingested, seek immediate medical attention. Reseal containers after use

TECHNICAL INFORMATION & SERVICES

Further information and advice including practical demonstration are freely available from the technical service department of Cemseal Industries Ltd.

NOTE

- Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Cemseal representative.
- Cemseal reserves the right to have the true cause of any difficulty determined by accepted test methods.

Address

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