

HYDROCRETE

Waterproof Concrete Admixture

DESCRIPTION

HYDROCRETE is a hydrophobic pore-blocking concrete admixture which is used to greatly reduce the permeability and water absorption to provide an effective barrier to the transmission of water through the micro-pores within the matrix of hardened concrete. It is supplied in powder form, in pre-weighed water-soluble bags, suitable for addition to the concrete at the batching plant. HYDROCRETE is a unique double action additive, which effectively lines the pore and capillary structure of the cement, reversing the capillary suction that normally occurs in concrete. It also physically blocks the capillaries to greatly reduce the transmission of water when under hydrostatic pressure.

USES

HYDROCRETE is used as an integral waterproof admixture which will produce watertight concrete when used as part of the HYDROCRETE watertight concrete system.

Applications include waterproofing of basements, swimming pools, lift pits, tunnels, culverts and other structures which require resistance to water ingress.

ADVANTAGES

- Reduces permeability of concrete.
- Produces integrally waterproof concrete structures.
- Increases corrosion resistance of concrete.
- Chloride free, offering extra protection to the reinforcement bars.
- Pre-weighed powder component supplied in water soluble bags for ease of dispensing.
- Consistent performance through accurate addition at concrete batching plant.

Property	Value
Appearance	Fine white powder
Chloride content	Nil to BS5075
Na ₂ O Equivalent	<0.1 %
EN 934-2 Compressive strength	Pass
EN934-2 Air content	Pass
EN934-2 capillary absorption	Pass
Corrosion behaviour	Contains components only from EN934-1: Annex A.1.

COMPLIANCE

- HYDROCRETE is certified by the British Board of Agrément.
- Complies with EN 934-2 table 9 as a water-resisting admixture.
- Type B waterproof additive as defined in BS 8102/2009 Table 1.



PROCEDURE

Dispensing: The HYDROCRETE admixture should be added to the concrete at the same time or after the addition of the cement. Care should be taken to ensure forced action and truck mixes are free from all contaminants prior to the batching of concrete. The concrete mix should be mixed at full revolutions for a minimum of 3 minutes to ensure optimum dispersion of the admixture. It is the responsibility of the concrete batching plant to control the consistency of the mix and the water/cement ratio.

Curing: Concrete containing the HYDROCRETE ADMIXTURE should be cured in line with good concrete practice using PREMCRETE curing agents in line with BS 7542.

COMPATIBILITY

HYDROCRETE is compatible with all Portland cement mixes including GGBS, PFA and limestone blends. HYDROCRETE is compatible with most superplasticisers but should be added to the mix separately.

CONCRETE MIX DESIGN

HYDROCRETE is guaranteed for use within reinforced concrete structures designed to 0.3mm maximum crack width and has been formulated for use in concrete with a minimum cement content of 350 Kg/M³ and a maximum water/cement ratio of 0.45. If the addition of a high range water reducer/ superplasticiser is required, then consult PREMCRETE Technical Department for specific advice.

PACKAGING

Pack size: 6 x 1.95kg water soluble bags per container.

STORAGE & SHELF LIFE

HYDROCRETE has a shelf life of 12 months and should be stored in dry conditions between 5°C to 40°C. The bags must be stored in sealed containers to prevent water ingress.

HEALTH & SAFETY

See separate material safety datasheet.

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