

HYDROREND

HIGH PERFORMANCE WATERPROOF RENDER

DESCRIPTION

HYDROREND is a single component polymer enhanced fibre reinforced render mortar. It is suitable for the application to concrete and masonry backgrounds to provide a fairfaced render which will effectively resist both negative and positive orientation hydrostatic water pressure. It's unique formulation ensures that the mortar will resist up to 10 bar water pressure.

USES

HYDROREND is suitable for the rendering and profiling of concrete and masonry in both vertical, horizontal and overhead situations. It is suitable for use as an effective barrier to water ingress on substructures such as basements, tunnels, culverts and other underground structures. It is particularly suitable where there is a requirement for a high build render or where the condition of the substrate precludes the use of a waterproof coating.

ADVANTAGES

- Maybe applied by hand or using spray techniques.
- Excellent adhesion to concrete and masonry.
- Excellent resistance to water under hydrostatic pressure.
- Microfiber reinforced to reduce shrinkage cracking
- Primerless application.
- Maybe built up in thick sections on vertical and overhead substrates.

Property	Value
Colours	Cement grey
Pot life @ 20°C	30 minutes
Application temperature	8°C to 30°C
Compressive Strength @ 20°C	1 day: 8 MPa 7 days: 20 MPa 28 days: 32 MPa
Flexural Strength (BS 4551)	8.5 MPa
Wet density	1920 Kg/M3
Application thickness	5 to 50mm

PROCEDURE

Surface Preparation: The perimeter of the repair should be saw cut to a depth of 10mm and all loose and damaged concrete should be carefully removed back to sound substrate. Any steel reinforcement within the area should be fully exposed around the full circumference of the bar. Exposed steel reinforcement should be cleaned back to bright steel, by means of grinding or grit blasting. Any surface contaminant should be removed by suitable means to ensure a good quality, clean substrate that has a compressive strength in excess of 20 MPa.

Priming: Typically substrates do not require the use of a separate substrate primer. The substrate should just be fully saturated with water, taking special care to ensure no standing water is present before application of the mortar. Particularly porous substrates may require the use of TEKNOPRIME 842. Exposed steel reinforcement should be primed using TEKNOPRIME 841.

Mixing: HYDROREND should be mixed using a forced action paddle mixer approximately 2.5ltr of water should be mixed with one 25Kg bag to achieve the desired consistency. The mortar should typically be mixed for 3mins.



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Application: HYDROREND should be applied to the prewetted substrate ensuring that a good initial contact coat is achieved by working the mortar into the surface. The mortar should be applied in thicknesses up to 50mm. If greater thicknesses are required, then each layer should have stabilized, and a key should be etched into the surface to provide a good bond to the subsequent layer. The render may be finished using a steel or wooden float. However special care should be taken to ensure that the surface is not overworked which can result in delamination and surface cracking. Water should not be added to the surface of the mortar when finishing.

Curing: Once the application of the HYDROREND has completed, the mortar should be cured using CURE AID AC which is spray applied to the freshly placed mortar. Take special care to ensure that the mortar is protected from direct sunlight and wind which may result in premature drying of the mortar.

Equipment Cleaning: Tools and equipment should be cleaned immediately using water.

PACKAGING & COVERAGE

Pack Size: 25kg bag

Yield: 14.4ltr per 25kg pack.

Coverage: 1 pack will cover approximately 1.4m² at 10mm thickness.

STORAGE & SHELF LIFE

HYDROREND should be stored in clean dry conditions at temperatures between 10°C and 30°C.



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www.premcrete.com | 02380 276166 |
sales@premcrete.com | 44 Macadam Way, West
Portway, Andover, Hampshire, SP10 3XW

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