

HYDROSEAL RX

Elastomeric Waterproof Coating

DESCRIPTION

HYDROSEAL RX is a two-component elastomeric coating, suitable for application to concrete and masonry substrates where it is important for the cured coating to retain a degree of elasticity. It is designed to be applied by brush, trowel or spray equipment, to form a durable but flexible barrier to the ingress of water, chlorides and carbon dioxide. It is particularly suitable for application to substrates where there are cracks or where movement is anticipated. Its highly alkaline nature provides extra protection against steel corrosion.

USES

HYDROSEAL RX is suitable for application to underground structures to provide an effective barrier of ground moisture and hydrostatic water pressure. It is particularly suitable for application to structures where there are cracks present or where movement is anticipated. Applications include the waterproofing of retaining walls, tunnels, culverts, swimming pools, podium slabs. It is also suitable for use as an embedment adhesive for HYDROBAND 2000 waterproof reinforcement tape.

ADVANTAGES

- Retains a degree of elasticity once cured.
- Provides effective barrier to hydrostatic water pressure to 10 bar.
- Provides the equivalent of 120mm of good concrete cover when applied as a 2mm coat.
- Good adhesion to concrete, masonry and steel substrates.
- Excellent resistance to freeze/thaw cycles and de-icing salts.

Property	Value
Colour	Cement grey
Pot life @ 20°C	50 minutes
Pot life @ 10°C	40 minutes
Tensile Strength	0.47 MPa
Compressive Strength	9 MPa @ 28 days
Flexural Strength	3.6 MPa
Elongation at Break	125%
Water Permeability	5.25×10^{-16} m/sec
Oxygen Diffusion	1.054×10^{-16} m/sec
Adhesive Bond	>0.7 MPa
Reaction to Fire	Euroclass A2-s1, d0

PROCEDURE

Surface Preparation: Substrates to which the HYDROSEAL RX is to be applied should be thoroughly cleaned and free from all loose material. Surface laitance should be removed by the use of wet grit blasting or high pressure water jet. This will ensure that an adequate key is provided for the applied coating, steel substrates should be mechanically prepared using a grinder or grit blasting equipment to ensure it is cleaned back to a bright metal finish. The substrate should be consistent with no defects. Any repairs should be carried out using a suitable PREMCRETE repair product. The concrete Sub-base should have a minimum compressive strength of 25 MPa. The prepared substrate should be free from any live water ingress and should be saturated with clean water taking special care to remove any standing water before application of the coating begins.

Substrate Priming: Application of HYDROSEAL RX to a vertical surface does not typically require the use of a primer. Highly porous substrates may require sealing with EOPRIME AC, however when HYDROSEAL RX is to be applied to a floor or deck then the substrate should be primed with EOPRIME AC to prevent any out-gassing of the substrate occurring.

Mixing: The liquid component should be dispensed into a mixing vessel that has a capacity in excess of 17L. The powder component should be added to the mixing vessel slowly and mixed using a forced action mixing paddle or pan mixer for a minimum of 5 minutes until a uniform consistency is achieved special care should be taken to ensure that packs of HYDROSEAL RX are not split or part mixed.

Application: HYDROSEAL RX is applied to a pre-wetted substrate using a suitable brush, trowel or wet spray equipment. The coating should be applied as a 1mm thickness per coat taking care to ensure that the fresh coating does not pond but is applied uniformly to the substrate. Vertical applications will require 2 x 1mm thick applications, the first coat should be firm but not completely set before applying the second coat. This will typically be one to two hours depending on the temperature. Horizontal applications can be applied as a single 2mm thick coating. A pin leveller should be used to apply the HYDROSEAL RX to large horizontal areas to ensure a consistent coating is achieved. Once levelled, the coating should immediately be de-aerated using a spiked roller to release any trapped air bubbles and prevent any pin holes occurring. Where HYDROSEAL RX is to be used as an embedment adhesive for HYDROBAND 2000, the HYDROSEAL RX should be applied to the substrate extending 50mm beyond the width of the HYDROBAND 2000. The HYDROBAND 2000 should be placed into the freshly applied HYDROSEAL RX, ensuring there are no creases or trapped air bubbles. Allow the first coat of HYDROSEAL RX to stabilize before applying a second coat to fully encapsulate the HYDROBAND 2000.

Equipment Cleaning: Tools should be cleaned using water for the coating has begun to set.

Curing: Care should be taken to ensure that the freshly applied coating is protected from direct sunlight and wind to ensure that premature drying which results in surface cracking does not occur. CURE AID AC should be applied immediately once application has completed alternatively a quartz aggregate can be broadcast on to the freshly applied coating to provide the required protection which will also result in a slip resistant finish being achieved.

PACKAGING & COVERAGE

Pack Size: 30kg bag.

Coverage: 18.5L per 30kg pack. 1.6 kg/mm/m²

1 pack is sufficient to cover approximately 9m² at 2mm thickness.

STORAGE & SHELF LIFE

Should be stored in cleaned dry conditions at temperatures of 6°C and above. HYDROSEAL RX has a shelf life of 12 months when stored correctly.

HEALTH & SAFETY

See separate material safety datasheet.