TECHNICAL DATA SHEET

HYDROBAND 2000

Waterproof Reinforcement Tape



PREMCRETE

HYDROBAND 2000



DESCRIPTION

HYDROBAND 2000 is a composite tape which is embedded into the PREMCRETE range of cementitious coatings to provide a highly flexible water-resistant seal over cracks, construction joints and expansion joints in waterproofing applications. It is an elastomeric yet highly tear resistant breathable membrane which is designed to be embedded into the freshly applied waterproof coating to provide extra reinforcement.

USES

HYDROBAND 2000 is used as a reinforcement tape for sealing cracks and joints in structures where resistance to water is required. This includes applications such as basements, culverts, tunnels, retaining walls, swimming pools, etc.

ADVANTAGES

- Resistant to water under 10 bar of hydrostatic pressure.
- Provides robust but flexible seal for the lifetime of the structure to which it has been applied.
- Highly elastomeric, allowing for in excess of 500% elongation.
- Suitable for use with all PREMCRETE cementitious coatings.
- Design life at least equal to that of the structure where it is incorporated.
- WRAS Approved.
- Suitable for contact with portable water.

HYDROBAND 2000

TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Method	Value
Chemical Base of the Tape	N/A	Flexible TPE Based Polymer, special coated non-woven
Surface Structure	N/A	Textured Surface
Tensile Strength - Lateral	EN-ISO527-3	30Mpa
Tensile Strength - Longitudinal	EN-ISO527-3	76Mpa
Maximum Tensile - Elongation Lateral	EN-ISO527-3	139%
Maximum Tensile - Elongation Longitudinal	EN-ISO527-3	22%
Tear Resistance - Lateral	EN-ISO527-2	48 N/mm²
Tear Resistance - Longitudinal	EN-ISO527-3	52 N/mm²
Shore Hardness	ISO 868	70 Shore A
Peel Strength	DIN 16860	N/10mm >20
Colour	RAL 7040	Grey
Water Pressure Strength	EN 1928	>1.5 Bar
Service Temperature	SIA V280/3+4	-30°C+90°C
Density	N/A	38gr/mt

INSTALLATION PROCEDURE

Surface Preparation

The joints to which the HYDROBAND 2000 is to be applied should be free from all live water ingress. The concrete should be sound and free from all deleterious material. Surface laitance should be removed by mechanical means such as grinding or grit blasting. If the membrane is to be applied to a metal surface, then the steel should be correctly prepared to achieve a bright metal. Concrete surfaces should be prepared by diamond grinding, grit-blasted or cleaned using a high-pressure water jet. The substrate should be free from all standing water before application commences.

Substrate Priming

Horizontal substrates should be primed using EPOPRIME AC prior to the application of the PREMCRETE cementitious coating. Refer to separate technical datasheet.

Application

A suitable debonding tape should be applied centrally over the crack or joint to prevent the HYDROBAND 2000 bonding directly over the line of the crack. The PREMCRETE cementitious coating should be applied either side of the debonding tape typically as a 2mm coating extending to at least 50mm beyond the edge of the HYDROBAND 2000. The HYDROBAND 2000 should be carefully embedded into the freshly applied coating, trowelling firmly into the wet coating to ensure there are no air bubbles or creases occurring. Once the cementitious coating has become stable, then a second 1mm thick coating should be applied to fully encapsulate the HYDROBAND 2000. When sealing movement joints, then extra slack should be allowed for, across the width of the movement joint. This will ensure excessive movement does not compromise the integrity of the seal. Where the HYDROBAND 2000 is to be used to withstand negative hydrostatic pressure, the membrane should not be left unsupported, but a load should be applied, such as a 75mm thick screed.

Curing

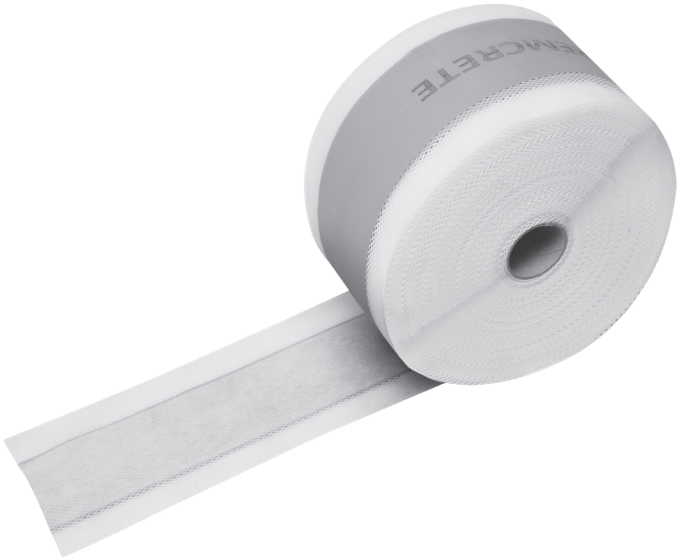
Once the PREMCRETE cementitious coating has been applied CUREAID AC should be applied to the surface to enhance curing of the product.

HYDROBAND 2000

PACKAGING & COVERAGE

Pack Sizes

120mm x 10m roll
120mm x 50m roll



STORAGE & SHELF LIFE

HYDROBAND 2000 should be stored in dry conditions at temperatures above 5°C.

HEALTH & SAFETY

See separate Material Safety Data Sheet.

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

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