cemseal®

Technical Data Sheet

CEMSEAL WATERSTOP HBR

(formerly known as CEMSEAL HBR)

HYDROPHILIC BUTYL RUBBER WATERSTOP

DESCRIPTION

CEMSEAL WATERSTOP HBR is a hydrophilic butyl rubber waterstop for sealing of construction joints and penetrations. The unique compound expands in a controlled manner when exposed to moisture and yet prevents the waterstop from overexpanding to the point of disintegration. It does not expand prematurely due to wet weather condition or water from concrete pour.

FEATURES AND BENEFITS

- Conforms to rough surfaces
- 10-bar hydrostatic pressure resistant
- Unaffected by repeated wet and dry cycles

RECOMMENDED USE

- Construction joints
- Pipe penetrations
- Kingpost penetrations

PRODUCT PROPERTIES

Roll Size	20mm x 15mm (6.25m x 8 rolls per carton) 20mm x 15mm (7.5m x 8 rolls per carton) 25mm x 19mm (5.0m x 6 rolls per carton)
Appearance	Black
Specific Gravity	1.40 ± 0.05
Service Temperature	5°C to 45°C

TECHNICAL PROPERTIES

Properties	Test Method	Typical Value
Volume Expansion in Water	ASTM D471	Up to 120%
Volume Expansion in Concrete Water	ASTM D471	Up to 120%
Cyclic Weather Exposure (3 cycles)	-	Passed
Hydrostatic Pressure Resistant	-	10 bar

SUBSTRATE REQUIREMENT AND PREPARATION

The substrate and supporting structure must be of sufficient structural strength for application of waterproofing build-up. The substrate shall be smooth, clean, free of dust, curing compound, mould release agent, laitance, loose particles and other contaminants. All joints shall be prepared and filled with suitable filler or sealant. Any honeycomb, crack or damage to the concrete substrate shall be repaired with suitable cement mortar. The acceptable concrete substrate shall be in accordance with ICRI Concrete Surface Profile 1 to 5.

APPLICATION

A minimum of 50mm of concrete cover is required from the edge.

Brush a coat of 30mm wide CEMSEAL CA adhesive on the concrete surface, and a coat on CEMSEAL WATERSTOP HBR. When the adhesive is touch dry, firmly press the waterstop to the concrete ensuring no visible gaps. Butt joint is recommended instead of overlapping, ensuring a continuous application.

For vertical and overhead applications, the waterstop can be secured with nails at every 250mm.

STORAGE AND SHELF LIFE

Storage

CEMSEAL WATERSTOP HBR should be stored in original manufacturer's packaging and position, at room temperature between 5°C and 25°C in a shaded, cool, dry and away from direct sun exposure. It shall also be stored at least 2 metres away from direct heat source

Shelf Life

Expected 12 months shelf life with the above-mentioned storage conditions.

HEALTH AND SAFETY

User must refer to Safety Data Sheet before usage of this product.

BASIS OF TECHNICAL DATA

All technical data provided in this Technical Data Sheet are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Disclaimer:
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