

BITURUB

1K Cold Applied Flexible Latex Modified Bitumen Base Membrane



Characteristics / Advantages

- Easy to apply
- Supplied ready to use
- Non sag on vertical surfaces
- Crack bridging for hairline cracks
- Remains flexible at low temperatures
- Resistant to acid soil and saltwater
- Solvent free, non-flammable
- Can be applied on dry and damp surfaces

TECHNICAL PROPERTIES

Product Description

BITURUB is a one part, solvent-free, flexible, high build coating based on a bituminous rubber emulsion. Once applied to the substrate, it cures to a highly flexible, waterproof coating which is highly elastic and crack-bridging and forms an excellent seam- and joint less waterproofing layer. The product has high mechanical resistance and crack-bridging capacity and open to vapour diffusion.

Uses

Waterproofing of all types of below ground concrete structures to protect from water ingress

Appearance/Color	Pasty liquid/ black
Chemical Base	Bituminous rubber emulsion.
Density	1.0 kg/l
Curing Speed/ Rate Surface dry after	3 - 4 hours
Tack free after	5 - 10 hours
Cured after	2 - 4 days (Dependent on ambient temperature, substrate temperature, relative humidity and thickness of the coating)
Solid Content by weight	~ 61%
Water Content by weight	~ 39%
Bitumen Content by weight	~ 41%
Viscosity	Thixotropic (The viscosity can be adjusted by adding up to max. 5% of clean water. Stir well prior use)
Coating Thickness	For light protection: 1.0 mm min. For greater protection: ~ 1.5 - 2.0 mm applied in two coats.
Water Penetration under Hydrostatic Pressure	48 h, 1 bar: 78.5 cm ² : 0 ml 96 h, 4 bar: 78.5 cm ² : 33 ml
Water vapor permeability	6 x 10 ⁻⁷ mg / hmPa
Service Temperature	-30°C to + 80°C
Adhesion	Concrete :Very good, Timber: Very good, Metal: Moderate Glass: Poor

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Mechanical / Physical Properties

Tensile Strength	0.18 N/mm ² (+23°C, 50% RH, 10 cm/h)
Elongation at Break	100% (+23°C, 50% RH 10 cm/h)
Behavior of Coating in Heat	Softening point (ring and ball): > 150°C (dry film)
Elongation at Break	Min. % 700 (for 1 mm thickness, at +20 °C, after 72 hrs)
Application Temperature	+5 °C - +35 °C
Interval between each application	approx. 4 hours

APPLICATION PROCEDURE

Substrate Quality Substrate must be smooth, dry, and free of dust, grease, oil, and loose or friable particles. Surface defects, voids, honeycombing etc. in the concrete must be repaired before coating.

Substrate Preparation Repair damaged concrete with high strength Repair Mortar.

Clean concrete surfaces with clean water. Clean contaminated substrates by suitable cleaning media, high pressure water jetting etc.

Application Conditions / Limitations

Substrate Temperature +8°C min. / +35°C max.
Ambient Temperature +8°C min. / +35°C max.
Substrate Moisture Content slightly visible damp acceptable - no standing water.

Application Instructions

Application Method / Tools

Application can be done by brush, roller, or spray gun. First layer should be applied in One direction only and following layer to be perpendicular to the previous one.

Spray application:

- Use compressed air spray suitable for high viscous liquids with a feed pressure of ~ 4 bars.
- Pressure at gun ~ 2.5 bars. - Apply in two coats.
- Do not mix the product with other materials.

Waiting Time /Over coating

Waiting time depends on the ambient temperature, substrate temperature, relative humidity and the thickness of coating applied. Before applying the second layer, make sure that the first coat is totally cured and dry. Wait 4 hours (at 23°C and %50 relative humidity).

Notes on Application /Limitations

- This product is not generally suitable on its own for waterproofing against hydrostatic pressure.

- It is recommended to reinforce the vertical and horizontal joints of excessively Cracked surfaces by using geotextile protection layer.

- Freshly applied material should be protected from rain and/or frost for 24 hours.

- Applications to be exposed to direct sunlight should be at least 1 mm thick.

- BITURUB should not be applied during rain, fog and temperatures below +5°C.

Curing Details;

BITURUB is applied at 23°C:

- Achieves its mechanical strength after five days
- Becomes fully waterproof after almost seven days
- Reaches its final strength values after fourteen days
- At low temperatures, above mentioned durations can be longer

CONSUMPTION: approx.1.5 kg/m² /1mm approx.

Packaging: 20 kg plastic pails

Storage Conditions /Shelf Life

12 months from date of production, if stored properly in unopened and undamaged original sealed packaging. Protect from frost.

Cleaning of Tools

Clean all tools and application equipment with clean water immediately after use.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet.

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Chemiprotect Engineer's publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability Of products for their intended use

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