TECHNICAL DATA SHEET

BITUSEAL

Bitumen Emulsion



PREMCRETE

BITUSEAL



DESCRIPTION

BITUSEAL is a bitumen emulsion. It is a solvent dispersion which exhibits excellent adhesive properties and retains its elasticity once cured. For large civil projects, it meets the requirements of a highways / civil engineering grade cutback bitumen.

USES

BITUSEAL is a multi-purpose bitumen waterproof emulsion which is used for application to a variety of substrates to provide a damp-proof membrane. Its rubber latex composition imparts a good degree of elasticity to the coating. It is suitable for application to most construction materials, including concrete, masonry, wood and metal. It provides a barrier against water and water vapour for brickwork, blockwork and stonework. It can also be used for the protection of subterranean concrete structures against ground water ingress. It is also used for sealing and protecting exposed concrete structures and surfaces.

ADVANTAGES

- Excellent adhesion - bonds effectively to concrete, masonry, timber and metal.
- Flexible & elastic - rubber latex formulation retains elasticity after curing, helping accommodate minor substrate movement.
- Versatile waterproof protection - provides an effective barrier against water and water vapour for a wide range of construction applications.
- Easy to apply - can be brush, roller or spray applied, with the first coat acting as a primer on porous substrates.

BITUSEAL

TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Method	Value
Colour	N/A	Black
Specific Gravity	N/A	1.00
Solids Content	N/A	58%
Ash Content	N/A	6%
Application Temperature	N/A	8^0C – 30^0C
Form	N/A	Viscous liquid
Density	N/A	0.89-0.92g/cm^3 at 20^0C
Odour	N/A	Solvent
Viscosity at 40^0C 10mm cup	N/A	40-60 sec
Drying time	N/A	2-4 hours at 20^0C
Service temperature	N/A	-20^0C to 35^0C
Dry Film Thickness (DFT)	N/A	250 microns (two coats)
Penetration at 20^0C residue from distillation to 360^0C	N/A	100-350mm

INSTALLATION PROCEDURE

Surface Preparation

Substrates should be free from dust, dirt, grease and other deleterious materials. The BITUSEAL may be applied to damp substrates, but with no standing water. BITUSEAL is suitable for application to green concrete (concrete that has set but not significantly hardened) which depends on the climate. We recommend that BITUSEAL is applied once the concrete is sufficiently cured. Any defects in the substrate should be repaired using a suitable PREMCRETE REPAIR PRODUCT.

Priming

Porous substrates do not have to be primed as the first coat of BITUSEAL acts as a primer. This helps to seal the surface and make for easier application of subsequent coats.

Mixing

BITUSEAL is a single component product, however it should be mixed thoroughly prior to application to ensure maximum workability. Should the product require thinning, it is recommended to thin 5-10% by volume of white spirit initially and evaluate the resulting viscosity. BITUSEAL should not need thinning if recommended storage conditions have been maintained.

Application

BITUSEAL should be applied to the prepared surface, using a suitable brush, roller or airless sprayer in a minimum of 2 coats. The first coat should be applied at a rate of approximately, 0.2 litres per m^2. Once the first coat is dry the second coat should be applied at right angles to the first application to ensure maximum coverage. If required then a layer of glass fibre mesh maybe embedded into the first coat, whilst still wet to provide extra reinforcement. If the BITUSEAL is to be applied to a concrete substrate which is to be subsequently overlaid with a cementitious screed, then the topcoat of BITUSEAL should be blinded with quartz aggregate to provide an adequate bond between the cured BITUSEAL and the subsequent screed. Avoid pouring directly onto a horizontal surface as this may cause puddling during application and increase the drying time. Leave 2-4 hours before overcoating with second coat. A touch test on the first coat will indicate readiness.

BITUSEAL

INSTALLATION PROCEDURE CONTINUED

Equipment Cleaning

For cleaning tools use PREMCRETE CLEANING SOLVENT.

Curing

BITUSEAL typically will have fully cured after 12hrs @ 200C. Heavy applications may result in extended drying times. Temperature and humidity both impact the drying time.

PACKAGING & COVERAGE



Pack Size

5 ltr and 25 ltr drums.

Coverage

To cover one coat only:
Porous surfaces (e.g. concrete / wood): 4-6m^2 / litre.
Non-porous surfaces (e.g. steel): 10-12m^2 / litre.

STORAGE & SHELF LIFE

BITUSEAL should be stored at between 8^{0}C and 30^{0}C. Do not allow the product to freeze.
When stored in unopened containers, BITUSEAL will have a shelf life in excess of 1 year.

HEALTH & SAFETY

See separate Material Safety Data Sheet.

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