

InsuSeal 299

A bitumen/rubber latex emulsion - surface applied, flexible, damp and vapour-proof liquid membrane.

DESCRIPTION OF PRODUCT

InsuSeal 299 is a brown rubber/bitumen liquid emulsion with excellent adhesion, which dries to a tough black seamless, flexible waterproof and vapour-proof membrane.

InsuSeal 299 has excellent resistance to water, diluted acids and alkalis, chloride and sulphate ions.

PRIMARY USES

- Foundation for tanks and waterproofing structures: to provide an impervious waterproof membrane on concrete and brick
- Floors: to provide a sandwich membrane in new construction or a surface treatment
- Walls: for interior and exterior walls
- Roofs: for the maintenance of many types of roofs including built-up felt, asphalt, lead, zinc, aluminium, concrete, lightweight screeds, timber, slate, asbestos cement, corrugated iron and as a vapour barrier
- As an adhesive: for bonding wood blocks and wood mosaics, insulation board, expanded polystyrene, and cork tiles.
- General damp proofing of concrete foundations that are in contact with groundwater

COMPOSITION

InsuSeal 299 is a thixotropic cold applied bitumen emulsion with added rubber latex.

PACKAGING

InsuSeal 299 is available in 200kg drums.

TYPICAL PROPERTIES

Colour:	Dark brown
Specific gravity:	1.050-1.150 @ 25°C
Coverage:	1 - 3m ² /kg/coat
Flashpoint:	Non flammable
Service temperature:	-30°C to +100°C
Dry film thickness:	0.86mm at 2kg/m ²
Application temperature:	+5°C to 55°C
Rubber content:	20% in the dried film

STANDARDS

- The Building Regulations 1972.
- BS 8102 - Protection of structures against water from ground.
- DOE 23 - Damp proof courses.
- DOE 77 - Adhesives used in buildings.
- BRE Digest 54 - Damp proofing solid floors.
- ASTM D1227, Type 3, Class 1.

APPLICATION PROCEDURE

InsuSeal 299 may be applied by brush or squeegee. All surfaces to which InsuSeal 299 is applied must be sound, stable with an even finish and free from dirt, dust, loose debris, grease, etc. It may be applied to damp but not waterlogged surfaces. Hot, very dry or porous surfaces should be dampened with a priming coat before InsuSeal 299 is applied. Where subsequent coats are to be applied, the first coat must be dry.

BELOW GROUND PROTECTION

InsuSeal 299 may be applied to green concrete immediately after shuttering has been removed. Blind the first coat with clean sharp sand to afford higher dry film thickness and aid monitoring layer applications.

SANDWICH MEMBRANE

Two coats to be applied at right angles to give a D.F.T. of 770 microns in accordance with BS 8102. Blind second coat with clean sharp sand to provide a mechanical key for top screed (minimum thickness 50mm).

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COVERAGE

Use	No. of coats	1 st coats	M ² /kg 2nd coat	3 rd coats
Priming coat: (when required)	1	3		
Diluted with six parts water				
Waterproofing and protective coating of structures: Bridge abutments, retaining walls, culverts, concrete or brick foundations, concrete columns and beams.	2	2	2.25	
Floors:				
Sandwich membrane	2	1.50	1.50	
Surface treatment	2	2	2	
Roofs felt, asphalt, lead, zinc, aluminium, concrete, timber, slate or corrugated roofs.	3	1	1.50	1.50
Vapour barrier.	2	1	1.50	
Adhesive: wood blocks, wood mosaics insulation board, expanded polystyrene, cork slabs.	1	1.50		
Plastering on difficult surfaces.	2	3		

NOTE: Depending on substrate porosity.

EQUIPMENT CARE

Before InsuSeal 299 has dried, clean tools using soapy water. If dried, remove by scraping and clean with paraffin or white spirit.

SPECIFICATION CLAUSE InsuSeal 299

All areas indicated shall receive 2 or 3 coats, as recommended, of a high build rubber/bitumen emulsion, such as InsuSeal 299, as manufactured by Insumat's Solutions, or similar approved.

STORAGE

Store under cover, out of direct sunlight, and protect from extremes of temperature. In tropical climates, the product must be stored in an air-conditioned environment.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice, consult Insumat's Solutions's Technical Services Department.

SHELF LIFE

Up to 6 months if stored according to manufacturer's instructions in unopened containers.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken, during use and storage, to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Re-seal containers after use.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact Insumat's representative.

Insumat reserves the right to have the true cause of any difficulty determined by accepted test methods.

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QUALITY STATEMENT

All products manufactured by Insumat Egypt, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, standard.

* Properties listed are based on laboratory controlled tests.

Actual measured data may vary due to circumstances beyond Insumat's control.

Manufacturing Insulating Materials and Products Company

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