

InsuSeal 280

High solids, protective coating based on emulsified bitumen.

DESCRIPTION OF PRODUCT

InsuSeal 280 is a non-fibrated, water-based bitumen emulsion. It is dark brown in colour and dries to a black flexible protective coating. The finished film is tough and waterproof and forms a barrier to water and vapour transmission.

TYPICAL APPLICATIONS

- General waterproofing and damp proofing of concrete, asbestos cement, roofing felt, slate tiles, wood, etc.
- Metal protection - provides protection for structural steelwork, pipes, etc.
- Insulation - provides a vapour barrier for cold storage rooms, etc.

ADVANTAGES

- Chemical resistance.
- Versatile - has many applications.
- Economical.
- Easy to apply.
- Cold applied.

PACKAGING

InsuSeal 280 is available in 15kg tins and 200kg drums.

COMPOSITION

A blend of selected asphalts and bitumen emulsified in water.

APPLICATION PROCEDURE SURFACE PREPARATION

Ensure surface to be treated is sound and free of all oil, grease or conventional curing compounds.

InsuSeal 280 can be applied directly to concrete surfaces cured, utilising non-degradable curing compounds, such as InsuKure A.

If the surface is dusty, it should be primed with a coat of InsuSeal 280 diluted with an equal quantity of clean water and allowed to dry, before applying further coats of InsuSeal 280. InsuSeal 280 can be applied to damp surfaces, although both coating and surface

must be allowed to dry before the InsuSeal 280 will cure to form a waterproof film.

BELOW GROUND PROTECTION

InsuSeal 280 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.

TYPICAL PROPERTIES

Flashpoint:	Non-flammable
Specific gravity:	1.050 - 1.150 @25°C
Application temperature:	5°C to 50°C
Service temperature:	-10°C to 85°C (depending on operating conditions)
Chemical resistance:	Excellent to water, dilute acids, alkalis, chloride and sulphate ions
Flexibility:	Provides a firm flexible coating

STANDARDS

ACI 515 IR-79. Guide to use of waterproofing, damp proofing and protecting and decorative barrier systems for concrete. Chapter 2 Section 2.1.1, 2.1.2 and 2.1.3 ASTM D1227 Type 3 Class 1

PERFORMANCE

Concrete coated with InsuSeal 280 will prevent the absorption of saline solutions. On uncoated surfaces, salts in groundwater will penetrate and can cause reinforcement corrosion and concrete deterioration.

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APPLICATION AGITATE BEFORE USE. AS SETTLEMENT CAN OCCUR THE DRUM SHOULD BE ROLLED BEFORE DECANTING MATERIAL.

Apply, by brush, broom or squeegee, one or two coats, depending on the degree of protection required. Apply subsequent coats at right angles to the first, allowing 12 to 24 hours between coats. Where being utilised to damp proof solid floors, or where a screed is to be applied over InsuSeal 280, apply a second coat at right angles and lightly grit to form a key. Allow at least 24 hours before application of concrete screed, ensuring this is not less than 50mm in thickness.

COVERAGE

1 - 3 m²/kg/coat depending on substrate porosity.

EQUIPMENT CARE

After use, if the InsuSeal 280 has not dried, it may be possible to clean tools using soapy water. If the InsuSeal 280 has dried, remove as much as possible by physically scraping and then remove remainder with paraffin, white spirit or solvent.

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 Technical Services Department.

SHELF LIFE

Up to 12 months if stored according to manufacturer's instructions in unopened containers.

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.

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

Founded by

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