

MasterSeal® 681 (Formerly known as MasterSeal 481)

High solids, protective coating based on emulsified bitumen

DESCRIPTION OF PRODUCT

MasterSeal 681 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

MasterSeal 681 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.

MasterSeal 681 can be applied directly to concrete surfaces cured, utilising non-degradable curing compounds, such as **MasterKure 101**.

If the surface is dusty, it should be primed with a coat of **MasterSeal 681** diluted with an equal quantity of clean water and allowed to dry, before applying further coats of **MasterSeal 681**. **MasterSeal 681** can be applied to damp surfaces, although both coating and surface must

be allowed to dry before the **MasterSeal 681** will cure to form a waterproof film.

BELOW GROUND PROTECTION:

MasterSeal 681 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 **MasterSeal 681** will prevent the absorption of saline solutions. On uncoated surfaces, salts in groundwater will penetrate and can cause reinforcement corrosion and concrete deterioration.



We create chemistry

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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 **MasterSeal 681**, 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

2-4 m²/kg/coat depending on substrate porosity

EQUIPMENT CARE

After use, if the **MasterSeal 681** has not dried, it may be possible to clean tools using soapy water. If the **MasterSeal 681** 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 BASF'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 your local BASF representative.

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

QUALITY STATEMENT

All products manufactured by BASF Egypt, or imported from BASF affiliate companies worldwide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007 standards.

* Properties listed are based on laboratory controlled tests.

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