

MasterSeal® 610SA

High solids protective coating and curing membrane based on emulsified bitumen

DESCRIPTION

MasterSeal 610SA is a non fibrate low viscosity water based bitumen emulsion. It is dark brown in color and dries to a black flexible protective coating which also acts as a curing compound. The finished film is tough and waterproof and forms a barrier to water and vapor 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 vapor barrier for cold storage rooms, etc.
- Protection to a variety of buried structures such as concrete foundations and retaining walls.
- As a curing compound onto green concrete.
- As a primer for most bitumen membranes.

ADVANTAGES

- Chemical resistance.
- Versatile.
- Economical
- Easy to apply.
- Cold applied.

PACKAGING

MasterSeal 610SA is available in 200 liter drums.

COMPOSITION

A blend of selected asphalts and bitumen's 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 610SA** can be applied directly as a protection to concrete surfaces cured utilizing nondegradable curing compounds such as **MasterKure 181**.

If the surface is dusty it should be primed with a coat of **MasterSeal 610SA** diluted with an equal quantity of clean water and allowed to dry, before applying further coats of **MasterSeal 610SA**.

MasterSeal 610SA can be applied to damp surfaces. although both coating and surface must be allowed to dry before the **MasterSeal 610SA** will cure to form a waterproof film.

TYPICAL PROPERTIES

Color	Brownish Back Liquid
Specific Gravity	1.00 to 1.040 g/l @25°C
Application Temperature	5 to 50°C
Service Temperature	10 to 50°C (depending on operating conditions)
Residue by Evaporation (ASTM D 1227)	min 47%
Solubility in Trichloroethylene (ASTM D 2042)	min 97.5%
Heat Test @100±3°C (ASTM D 1227)	No blistering, sagging or slipping
Flexibility 0±½°C (ASTM D 1227)	No cracking or flaking
Resistance to water (ASTM D 1227)	No blistering or reemulsification
Direct Flame test (ASTM D 1227)	coating shall char in place
Flash Point	Not Flammable

STANDARDS

ACI 515 IR-79. Guide to use of waterproofing, damp proofing, protecting and barrier systems for concrete. Chapter 2 Section 2.1.1, 2.1.2., 2.1.3.

MasterSeal 610SA complies to ASTM D 1227.

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PERFORMANCE

- **MasterSeal 610SA** will act as a curing compound when applied to green concrete. Apply immediately when formwork is removed.
- Will act as a primer for most bitumen based membranes.
- Concrete coated with **MasterSeal 610SA** will prevent the absorption of saline solutions. On uncoated surfaces, salts in groundwater will penetrate and can cause reinforcement corrosion and concrete deterioration.

APPLICATIONS

Agitate before use. As settlement can occur, the drum should be rolled before decanting material.

Apply by brush, broom or squeegee. Apply 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 utilized to damp proof solid floors or where a screed is to be applied over **MasterSeal 610SA**, 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 greater than 60mm in thickness.

COVERAGE

2-4 m² per liter per coat depending on use and substrate porosity.

EQUIPMENT CARE

After use, if the MasterSeal 610SA has not dried, it may be possible to clean tools using soapy water. If the MasterSeal 610SA has dried remove as much as possible by physically scraping and then remove remainder with paraffin, white spirit or MasterTop Solvent No. 2.

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. As with all bituminous emulsions, some settlement will occur with prolonged storage. It is, therefore, necessary to invert the drums monthly to disperse the settlement. Shelf life is up to 6 month in unopened containers, when stored as above.

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

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 medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation. For further information refer to the material safety data sheet.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Master Builders Solutions representative.

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

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QUALITY AND CARE

All Master Builders Solutions Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and Master Builders Solutions ESHQ recommendations.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC-Group in many countries

CONTACT

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Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with Master Builders Solutions and possible resulting damages are in the sole responsibility of the customer.

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