

MasterSeal[®] 621

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

DESCRIPTION

MasterSeal 621 is a brown rubber/bitumen liquid emulsion with excellent adhesion which dries to a tough black seamless, flexible damp-proof and vapour-proof membrane.

PRIMARY USES

- Tanking and damp-proofing structures: to provide an impervious damp-proof 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 and to provide a key for plastering.

COMPOSITION

MasterSeal 621 is a thixotropic cold applied bitumen emulsion with added rubber latex.

PACKAGING

MasterSeal 621 is supplied in 200 litre containers.

TYPICAL PROPERTIES

Colour	Dark brown
Density	Approx. 1kg/litre at 25°C
Flashpoint	Non flammable
Service temperature	-30°C to +100°C
Application temperature	+5°C to 55°C
Rubber content	Min 10% in the dried film
VOC	<1g/L

STANDARDS

Fire Classification - BS EN ISO 11925 Part 2 / BS EN 13501 Part 1:2007 + A1:2009

APPLICATION PROCEDURE

MasterSeal 621 may be applied by brush or squeegee. All surfaces to which **MasterSeal 621** 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 **MasterSeal 621** is applied. Where subsequent coats are to be applied, the first coat must be dry.

BELOW GROUND PROTECTION

MasterSeal 621 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, blind second coat with clean sharp sand to provide a mechanical key for top screed (minimum thickness 50mm). **MasterSeal 621** membrane should marry up with D.P.C. (where applicable).

WALLS WITH DAMPNES

Remove any coatings and plaster back to the blockwork. Apply three coats **MasterSeal 621** blinding the final layer with clean sharp sand whilst still tacky. Replaster using a render modified with **MasterCast 141**.

CURING / DRYING

- a. **MasterSeal 621** will take longer to dry sufficiently for over-coating in low temperatures and high humidity.
- b. Provisions of good ventilation will significantly reduce drying time.
- c. **MasterSeal 621** should allowed to dry for 3-5 days.

SPECIFICATION CLAUSE

All areas indicated shall receive 2 or 3 coats as recommended of a high build rubber/ bitumen emulsion such as **MasterSeal 621** as manufactured by MBCC, or similar approved.

MasterSeal® 621

EQUIPMENT CARE

Before **MasterSeal 621** has dried, clean tools using soapy water. If dried, remove by scraping and with paraffin or white spirit.

COVERAGE

Use	Number of coats	m ² / litre		
		1st coat	2nd coat	3rd coat
Priming coat: (when required) Diluted with five parts water	1	7.50		
Damp-proofing 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 surface treatment	2 2	1.50 2.00	1.50 2.00	
Walls: interior and exterior	3	2.25	2.25	2.25
Roofs (with reinforcing scrim) felt, asphalt, lead, zinc, aluminium, concrete, timber, slate or corrugated roofs. Vapour barrier.	3 2	1 1	1.50 1.50	1.50
Adhesive: wood blocks, wood mosaics insulation board, expanded polystyrene, cork slabs. Plastering on difficult surfaces.	1 2	1.50 4.50		4.50

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. Reseal containers after use.

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 every other week to disperse the settlement. Shelf life is up to 1 year 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 MBCC's Technical Services Department.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local MBCC representative. MBCC reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All products originating from MBCC's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

Properties listed are based on laboratory controlled tests.

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

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this MBCC publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by MBCC either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not MBCC, are responsible for carrying out procedures appropriate to a specific application.