



The Chemical Company

MASTERSEAL[®] 420 HB

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

Description

MASTERSEAL[®] 420 HB is a brown rubber/bitumen liquid emulsion with excellent adhesion which dries to a tough black seamless, flexible waterproof and vapour-proof membrane.

Primary uses

- Tanking 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 and to provide a key for plastering.

Composition

MASTERSEAL[®] 420 HB is a thixotropic cold applied bitumen emulsion with added rubber latex.

Packaging

MASTERSEAL[®] 420 HB is supplied in 200 litre containers.

Typical properties

Properties listed are only for guidance and are not a guarantee of performance.

Colour:	Dark brown
Specific gravity:	1.01 at 25°C
Coverage:	1 - 4.5m ² / litre
Flashpoint:	Non flammable
Service temperature:	-30°C to +100°C
Solids content:	65%
Application temperature:	+5°C to 55°C
Rubber content:	10% 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.

Application procedure

MASTERSEAL[®] 420 HB may be applied by brush or squeegee. All surfaces to which MASTERSEAL[®] 420 HB 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[®] 420 HB is applied. Where subsequent coats are to be applied, the first coat must be dry.

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Below ground protection:

MASTERSEAL[®] 420 HB 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). MASTERSEAL[®] 420 HB membrane should marry up with D.P.C. (where applicable).

Walls with dampness:

Remove any coatings and plaster back to the blockwork. Apply three coats of MASTERSEAL[®] 420 HB blinding the final layer with clean sharp sand whilst still tacky. Replaster using a render modified with RHEOMIX 141.

Specification clause

MASTERSEAL[®] 420 HB:

All areas indicated shall receive 2 or 3 coats as recommended of a high build rubber/ bitumen emulsion such as MASTERSEAL[®] 420 HB as manufactured by BASF, or similar approved.

Equipment care

Before MASTERSEAL[®] 420 HB 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 six parts water	1	7.50		
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	2.00	2.00	
Walls: interior and exterior	3	2.25	2.25	2.25
Roofs (with MASTERFLEX scrim) 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	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.



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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 6 months 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 BASF's Technical Services Department.

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 and care

All products originating from BASF'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.

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As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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