

MasterSeal® M 820

Spray applied elastomeric polymer waterproofing membrane

DESCRIPTION

MasterSeal M 820 is a solvent free, two component waterproofing membrane. Due to its fast cure speed it can only be applied by special, two component spray equipment.

RECOMMENDED USES

MasterSeal M 820 is intended for use in general waterproofing applications such as car park decks, podium decks and cut and cover tunneling.

Using the appropriate primer, **MasterSeal M 820** can be applied to most substrates including concrete, galvanized steel, aluminium, UPVC, glass reinforced polyester etc.

FEATURES AND BENEFITS

- **Fast reacting spray application** – Complex details both horizontal and vertical easy to waterproof
- **Application to vertical surface without runs** – Installation to walls not problem
- **Monolithic** – No laps, welds or seams
- **Fully bonded** – Moves with the structure
- **High water vapor permeability** – Low risk of blistering in service
- **Crack bridging capability** - Can cope with cracks that occur after installation
- **Solvent and monomeric isocyanate free** - Increased safety for applicators
- **Unaffected by standing water or ground water** – Suitable for constant water contact
- **Thermoset** – Does not soften at elevated temperatures encountered on a roof
- **Remains elastic at low temperatures -Tg approx. -45°C** – Suitable for all Asia Pacific climates

PERFORMANCE DATA

Shore A hardness	75-80
Tensile strength DIN 53504	>8 MPa
Elongation DIN 53504	>400%
Tear strength DIN 53515	16 N/mm
Gel time (sprayed) @ 23°C	18 seconds

PROPERTIES

Mixing ratio	Part A	Part B
by weight	100	100
by volume	100	100
Density (kg/L) @ 23°C	1.04	1.10
Viscosity(mPas) @ 23°C	>1500	>1400
Ambient temperature	5 °C to 40 °C	
Substrate temperature range	5 °C to 60 °C	
Relative humidity (%)	Max. 85	

The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.

APPLICATION

(A) SURFACE PREPARATION

The concrete substrates to be coated must be at least 14 days old, dry, free of laitance as well as substances which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants. Preparation of the substrate by grit or shot blasting, high-pressure water jetting, grinding or scarifying is necessary for plain concrete or when the primer has become soiled or when the re-coating interval has been exceeded. Prior to application of the primer the bond strength of the substrate must be at least 1.5 MPa (check with an approved pull-off tester ie "Proceq", load rate 100 N/s or others as approved by BASF).

The substrate to be coated must be protected against rising damp by having a damp proof membrane installed if it is a slab in contact with the ground.

MasterSeal M 820 can only be applied by means of a suitable two component spray machine. For advice on machines, please contact your local BASF technical representative.

MasterSeal M 820 when sprayed results in a uniform grey colour which gives the sprayer a visual control of the quality of the mixing as machine faults become immediately obvious. This can reduce costly clean up time and material wastage. Due to the fast reaction it is possible to rapidly build thicknesses from 1.0 to > 6 mm.

MasterSeal[®] M 820

Spray applied elastomeric polymer waterproofing membrane

Surrounding areas should be protected from overspray by masking off with e.g. polyethylene sheet or paper. Care should be taken to prevent spray mist being carried by wind by erecting suitable barriers. The temperature of the substrate should be min. 3°C above the dew point prior to application of the membrane.

(B) PRIMER

Primer has to be cured to a 'tack-free' state prior to the application of **MasterSeal M 820**. Use the following guide to select the appropriate primer:

Substrate	Primer
Concrete	MasterEmaco 2525 MasterTop P 1602 MasterTop 1140
Other substrates	Contact your local BASF Construction Chemicals technical representative

(C) TOP COATS AND WEAR COATS

MasterSeal M 820 does not have sufficient UV and weather resistance to be used in exposed applications without protection. A number of top coats and wear coats are available including **MasterSeal TC 258** which can be broadcast with dry silica sand to provide a hard wearing, non-slip surface.

Note: if rain falls or dew occurs on the surface of **MasterSeal M 820** then the membrane must be dried and MasterTop 691 applied prior to the application of any wear coat or two part top coat

(even if the re-coat interval has not been exceeded). In the tropics any exposed **MasterSeal M 820** must be treated as above if left overnight.

For more information about application, please obtain a copy of the BASF "Application Guide for MasterSeal Spray Membrane System" from your local representative.

ESTIMATING DATA

MasterSeal M 820 is normally applied at 1.8 – 2.4 kg/m². This corresponds to a thickness of approx. 1.8 – 2.4mm.

PACKAGING

MasterSeal M 820 is supplied as two component material.

Part A: 200kg drums

Part B: 200kg drums

SHELF LIFE

12 months if stored in original containers under dry conditions at a temperature between 10-30° C. Do not store in direct sunlight for more than 3 days.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Material Safety Data Sheet (MSDS) from our office or our website.

MasterSeal[®] M 820

Spray applied elastomeric polymer waterproofing membrane

MAP#MasterSeal M 820 v2-1016

® = registered trademark of a MBCC Group member in many countries of the world

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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 Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

Master Builders Solutions Ltd.,Co.

Level 11, Saigon Trade Center, 37 Ton Duc Thang, Ben Nghe Ward, District 1, Ho Chi Minh City, Vietnam

Tel: +84 329 702 998

Register number: 0316341574

Website: <https://www.master-builders-solutions.com/vi-vn>