EUROSTEP
Posadzki i nawierzchnie syntetyczne

TECHNICAL DATA SHEET

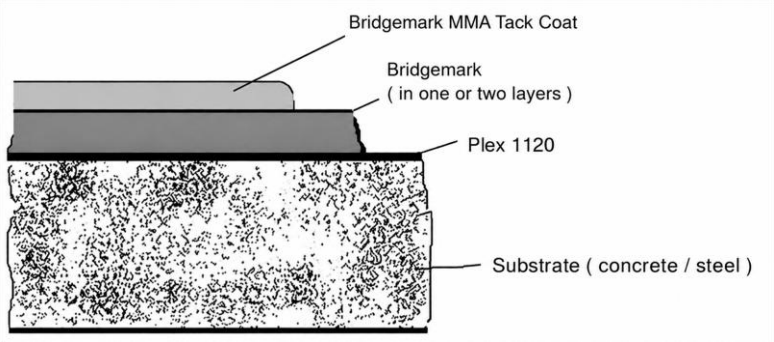
Reference: BRIDGEMARKMMA

Version: 1.0

Bridgemark MMA

DESCRIPTION:

Bridgemark MMA is a waterproofing product designed for use as a waterproofing membrane on steel and/or concrete bridge structures.
At the same time, it provides effective corrosion protection for steel surfaces exposed to weathering. Due to its very short curing time, the system is particularly suitable for repair and renovation works on bridges and other engineering structures. Application can also be carried out at sub-zero ambient temperatures.
Thanks to these properties, small-scale repair and waterproofing works on engineering structures can be completed within a single day.
The Bridgemark MMA System can also be used as a waterproofing and separation layer beneath asphalt road surfaces. The material provides excellent adhesion to asphalt and has similar thermal expansion characteristics.



CONSUMPTION:

Bridgemark MMA system	Product	Consumption
Primer (optional)	**Plex 1120**	0,25 - 0,325 kg/m^2
Wear layer	**Bridgemark MMA Component A** **Bridgemark MMA Component B** **1:1** **Bridgemark BPO Catalyst (1-2% on mass of membrane)**	1,4 kg/m^2 (1 mm thickness layer) 2,8 kg/m^2 (2 mm thickness layer)
Tack Coat	**Bridgemark Tack Coat**	0,15 – 0,25 kg/m^2 (2 mm)

SUBSTRATE PREPARATION:

The substrate must be sound and sufficiently pressure-resistant (minimum 25 N/mm^2), with a minimum bond strength of 1.5 N/mm^2.
The substrate must be clean, dry and free of dirt, oil, grease and other contamination. Before applying the top coat, remove excess quartz from the floor and vacuum the floor.

APPLICATION CONDITIONS:

Substrate temperatre:	Minimum 0°C, maximum +30 °C (can be evaporated in bigger temperature)
Ambient temperature:	Minimum 0°C, maximum +30 °C

FEATURES:

- Waterproofing
- East to apply
- Short curing time
- Great adhesion to concrete
- High chemical resistance
- Good mechanical resistance

TECHNICAL PROPORTIES:

Density (g/cm^3)[1]	1,15 – 1,25
Viscosity (mPa·s)[2]	8000 – 10000
Shore hardness D [°Sh][3]	~40
Tensile strength [MPa][4]	~12
Elongation at break [%][4]	>140
Pot life [min] at 20°C	10
Ratio [A:B]	1:1
Bond strenght (N/mm^2)[5]	> 1,5 (concrete facture)

1 = ISO 2811-1, + 23°C/50% R.H
2 = Brookfield, LV3, 30 RPM, at 23°C
3 = DIN 53505, 14 days / + 23°C / 50% R.H
4 = ISO 527, 28 days/+ 20 °C/50% R.H
5 = EN 4624, 14 days/ + 23 °C / 50% R.H

STATE:

COMPONENT A: LIQUID, UNCOLOURED
COMPONENT B: LIQUID, WHITE

MIXING RATIO:

COMPONENT A: COMPONENT B **1:1**
1-2% CATALYST ON MASS OF MEMBRANE

PACKAGING:

20 kgs bucket (Component A)
20 kgs bucket (Component B)
0,8 kgs bucket Bridgemark BPO Catalyst

200 kgs barrel (Component A)
200 kgs barrel (Component B)
8 kgs bucket Bridgemark BPO Catalyst

SHELF LIFE:

Up to 12 months after production date in original, sealed, non-opened and undamage packaging, stored dry between +10 °C and +30 °C.

Surface moisture content:	< 4% moisture To be tested with a carbide measurement.
Relative humidity:	Maximum 80% R.H.

The recommended temperature of the material before application is 20° C.
The material must not be applied if the temperature is lower or equal to the dew point.

APPLICATION CONDITIONS:

Apply with a spray coating or by roller.
Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
Weak concrete and loose cementitious levelling must be removed and surface damage such as blowholes and voids must be repaired and then primed again.
All dust, loose and friable material must be fully removed from all surfaces before the product is applied, preferably using a brush and/or industrial vacuum cleaner.
The concrete, metal or screed substrate must be primed. Uneven substrates must be levelled to achieve an even substrate.
Please see respective Technical Data Sheets for more information.
If the surface is older than 48 hours, always perform a preliminary adhesion test.
Ensure adequate ventilation during application of wear layer!

Pot life at 20 °C	10 minutes
Dry in touch at 20 °C	20 minutes

Check the moisture content of the surface, the R.H. and dew point before applying.It is recommended to use the spraying method to apply the material.

Temp. [°C]	Catalyst [%]	Pot life [min]	Curing [min]
0-10	1	~40	80
10-15		~30	60
15-20		~20	40
0-10	2	~20	40
10-15		~15	30
15-20		~10	20

NOTES:

Wear appropriate personal protective equipment when applying the material
Protection from rain and water is necessary during processing and curing.
Improper assessment and treatment of cracks may lead to recurrent cracking.
Mixed materials should be processed immediately.
If heating is required, do not use gas, oil paraffin or other fossil fuel burners. These produce large amounts of CO_2 and water vapour, which adversely affect the finish. Use only electrically powered hot-air ventilation systems for heating.

LEGAL NOTICE:

The information, and especially the recommendations regarding the application and end use of Eurostep products, is provided in good faith based on Eurostep's current knowledge and experience with products properly stored, handled and applied under normal conditions.
In practice, differences in materials, substrates and actual site conditions may be such that no warranty as to merchantability or fitness for a particular purpose can be derived from this information and advice, nor any liability arising from any legal relationship, based on this information, or from any written recommendations or any other advice given.
Eurostep reserves the right to change characteristics of products.
The property rights of third parties must be respected.
All orders are accepted under the current sales and delivery terms and conditions. Users should always consult the most recent edition of the product safety data sheet for the product concerned. Copies of these will be provided on request.

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HEALTH AND SAFETY:

For information and advice on the safe handling, storage and disposal of chemical products, the user should consult the most recent product safety data sheet consult, regarding the physical, ecological, toxicological and other safety-related data.

VALUE BASE:

All technical data stated in this technical data sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

For more information about the Eurostep products or for technical advice, please contact:

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