

Product: Britdex MDP - Spray Applied Waterproofing

Product Description:

Britdex MDP is a high performance waterproofing membrane based on Methyl Methacrylate (MMA) resins developed for the protection of concrete and steel structures. It cures rapidly to provide a tough, flexible seamless membrane. Airless spray equipment has been specifically developed to meter, mix and apply the product. Britdex MDP has an unparalleled track record with thousand's of structures waterproofed successfully throughout the world.

Uses:

Britdex MDP provides a complete waterproofing system to protect the substrate from corrosive effects of water and chloride ions. Typical applications include:

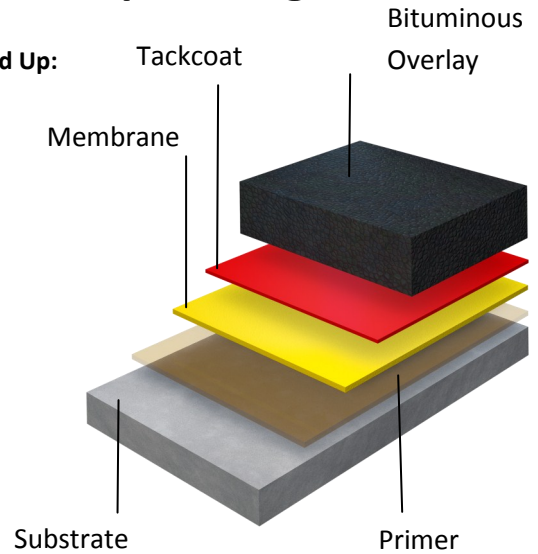
- Concrete bridge decks
- Steel bridge decks
- Bridge piers
- Bridge service ducts
- Culverts

The system can be amended to accommodate both high and low ambient temperatures without any detriment to the performance of the system.

Features

- Excellent track record
- Long and effective service life
- Unaffected by high humidity and cures rapidly even at low temperatures enabling all year round application on all continents
- Rapid installation rates. Outputs in excess of 2,000m² per day can be achieved
- Fully reactive and does not contain solvents
- Impermeable to chloride ions
- Can bridge shrinkage cracks in concrete over a wide temperature range
- High bond strength

System Build Up:



Technical Data

Property	Value
Application Temperature Range	-10 to +40°C
Typical Tensile Strength	>11.8
Typical Elongation at Break	130-180%
Typical Tear Strength	70N/mm
Low Temperature Flexibility	
Unaged	Pass at -25°C
56 days heated at 70°C	Pass at -20°C
28 days water soak at 23°C	Pass at -25°C
Static Crack Bridging @ 0°C	Pass
Dynamic Crack Bridging @ -10°C, 23°C And 40°C	Pass
Heat Ageing at 70°C for 1 year	No significant change
Tensile Adhesion Strength	
Concrete	>0.7 MPa
Steel	>2 MPa
BD47 Requirement	0.3 MPa
Hardness (Shore D)	56
Resistance to Aggregate Indentation	No damage
Chisel Impact at 23°C and 0°C	No damage
Abrasion Resistance (weight loss-grams)	0.57

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Surface Preparation:

It should be stressed that the success of any waterproofing system is dependent on the thoroughness of the surface preparation.

Concrete:

New concrete decks should be a minimum of seven days old. The substrate must be clean, dry and structurally sound. It must be free from laitance, oils and all other surface contaminants. Repairs to damaged concrete can be made using Deck Repair Rapid Mortar.

Steel:

On steel surfaces all rust, dirt and contamination should be removed to expose bright metal.

For compatibility with other construction materials or where additives, cement replacement or curing compounds have been used please consult Pitchmastic's Technical Department.

Application:

Primer

Britdex MDP Primer or DSP Primer is applied by spray, roller or brush.

The primer used will depend upon the site conditions and the application must be carried out in accordance with the BBA agreed method statement.

Membrane:

Britdex MDP is applied to give a minimum dry film thickness of 2mm. The coverage rate will vary with surface texture.

Tack Coat/Bond Coat:

A tack coat or bond coat must be applied to Britdex MDP when being used as a waterproofing membrane on road bridges underneath asphalt or macadam surfacing. A range of tack coats or bond coats is available depending upon the specification.

Accreditations and Associations:



Cleaning:

All tools and equipment should be cleaned with Acetone before the material is allowed to cure.

Note: All components of Britdex MDP should be stored in cool, dry protected conditions out of direct sunlight.

Storage temperatures must not exceed 25°C. Do not store near naked flames or foodstuffs.

Ancillaries:

Pitchmastic PmB International provide a range of products to compliment the Britdex MDP system. These include:

- PmB - Polyurethane spray applied waterproofing
- Bridge expansion joints
- PDS - Lightweight kerb and drainage units

Health and Safety:

The system is fully compliant with Volatile Organic Compound (VOC) regulation and independent risk assessments carried out in accordance with the UK Control of Substances Hazardous of Health (COSHH) regulations, indicate the application of Britdex MDP to be a low risk process. The material Safety datasheet must be read, understood and available on site before commencing work.

It is the company's policy to take all reasonable steps to prevent injury to all property and personnel from foreseeable hazards. This extends to the public in so far as they come into contact with the company or its products.

CE Marking:

0086	
Nufins, Kingston House, 3 Walton Road, Pattinson North, District 15, Washington, Tyne & Wear, NE38 8QA 13 0086-CPD-594215	
EN 1504-2 Surface protection system for concrete Coating	
Permeability to Water Vapour	Class 3
Capillary Absorption & Permeability to Water	$<0.1 \text{ kg/m}^2/\text{H}^{0.5}$
Adhesion	$\geq 1.5 \text{ MPa}$
Dangerous substances	Complies with 5.4