

# brix-P-MF (4-Pack)

(4.0 mm – 5.0 mm)



**brix-P-MF is a light to medium duty, flow-applied polyurethane concrete resin flooring system with a seamless, matt and smooth finish.**

brix-P-MF provides an impact resistant surface & protects against abrasion, chemical attack & other forms of physical and mechanical based surface activity.

The material is resistant to organic acids, dilute mineral acids, vegetable and animal fats, petroleum oils and solvents

## Working Time

~20 – 25 minutes @ 25°C (usable working life of material following mixing and immediate spreading as per the application instructions).

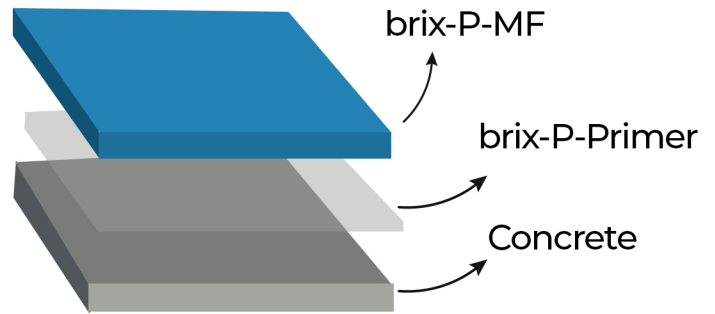
## Overcoating Time

~12 – 24 hours @ 25°C (some mechanical preparation maybe required).

## Coverage

The recommended coverage of brix-P-MF is 7.6 kg/m<sup>2</sup> at 4 mm and 9.5 kg/m<sup>2</sup> at 5 mm

brix-P-MF requires priming, use brix-P-Primer at approximately 1.00 – 1.65 kg/m<sup>2</sup>. These coverages are theoretical and may vary due to a number of factors including the condition of the substrate. A recommended 5% wastage addition is advised on all orders.



brix-P-MF is used in light-duty industrial applications subject to infrequent chemical exposure and low-impact traffic and mechanical operations. The material has been designed for use in the food and beverage sector.

## Speed of Cure

- Light Foot Traffic – 12 hours
- Light Wheeled Traffic – 24 hours
- Heavy Duty Traffic – 48 hours
- Full Chemical Cure – 7 days

## Storage

All components should be stored off the ground, in a cool dry area, away from direct sunlight between 10 – 30°C

## Shelf Life

12 months in the closed original container

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### Colors



Buff



Tile Red



Green



Cream



Silver Grey



Goosewing Grey



Light Grey (RAL 7035)



Grey



RAL 5012



Mustard

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## Typical Properties

BS 8204-6 (FeRFA)		Type 5
Temperature Resistance	Resistant to cleaning processes from -20°C up to 95°C (4 mm)	
Fire Resistance	EN 1350-1	BfIS1
Co-efficient of Thermal Expansion	ASTM C531	5.8 x 10-5/°C
Slip Resistance	TRLL Pendulum Slip Test DIN 51130	Dry > 40 R9
Abrasion Resistance	EN 13892-4 BS 8204-2	AR 0.5 Special Class
Shore D Hardness	80 after 28 days	
Impact Resistance	EN 13813	> 4 Nm (IR4)
Compressive Strength	EN 196 / ASTM C109	50 N/mm2
Flexural Strength	EN 196 / ASTM C109	20 N/mm2
Tensile Strength	EN 196 / ASTM C109	10 N/mm2
Adhesion	EN ISO 4634	> 1.5 N/mm2
Low Emissions	ISO 1600-3, 6, 9 and EN 16516	Compliant
Slip Resistance	As per BS7976-2(values for 4S Rubber slider)	
Water Permeability	Nil(As per Karlsten Test Method)	
Vapor Permeability	As per ASTM E96 : 90 - 5gm/m² per 24 hours at 4 mm thick	
Taber Abrader : 0.1 g loss per 1000 cycles		
Chemical resistance : Chart Attached Separately		

The typical physical properties given above are derived from testing in a controlled laboratory environment at 20°C. Results derived from testing field applied samples may vary dependent upon site conditions. The slip resistance figures given above are affected by application techniques and prevailing site conditions. Slip resistance can reduce over time due to poor maintenance, general wear or surface contaminants. Good housekeeping practices should be observed.

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## **Application Temperature Range**

~10 – 30°C is recommended. Outside of this range, heating or cooling equipment should be used to achieve ambient conditions. The substrate, before priming, should be at least 3°C above the dew point to reduce the risk of condensation or blooming. This should be maintained for 48 hours after application.

## **Substrate Requirements**

Substrate Requirements brix-P systems are suitable for application on cementitious substrates and suitable polymer modified screeds. All substrates should be capable of bearing loads, free of cracks and voids as well as free from laitance, dust and other contamination including dirt, oil, grease, coatings, and surface treatments. The substrate should be sound with a minimum compressive strength of 25 N/mm<sup>2</sup> and a minimum tensile strength (pull-off) of 1.5 N/mm<sup>2</sup>.

## **Substrate Preparation**

Concrete or suitable polymer modified screed substrates should be mechanically prepared using captive vacuum enclosed shot blasting, or by appropriate diamond grinding to remove surface cement based laitance and previous surface treatments leaving an open textured mechanically prepared surface.

Weak concrete / polymer modified screed must be removed and repaired using recommended products. In order to ensure the installed system remains fully bonded to the substrate it is recommended that all terminating edges are rebated to produce a cross-section "anchor chase" of 5.0 mm deep by 5.0 mm wide, stepped out at 150.0 mm from and parallel with the walls i.e. day joints, movement joints, floor edges, door thresholds, upstands, plinths, etc.

## **Application Instructions**

### **Priming**

Priming of the substrate is required, scratch-coat the surface with brix-P-Primer or brix-P-MF. For non-ground resting slabs, brix-E-Primer can be used providing the substrate moisture is no greater than 75%RH. Allow to cure 12 to 16 hours before applying the brix-P-SL screed. Please note, if the surface is excessively porous it may be necessary to apply subsequent coats of the priming material until the substrate is fully sealed.



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## Mixing

The contents of the brix-P-Pigment Pack D should be drained into the brix-P-Universal A component and the two materials thoroughly mixed until homogenous before adding the contents of brix-P-Universal B. The mixed liquid should then be poured into a clean suitably sized separate mixing container and the brix-P-MF Filler C #3 aggregate component slowly added under constant mixing using a suitable slow speed electric mixer fitted with either a single or double mixing paddle or by using a forced action (rotary drum) type compulsory mixer until a uniform free flowing consistency has been achieved.

## Application

Apply the mixed brix-P-MF screed by serrated / notched trowel, or pin rake to the required thickness. Within approximately 10 minutes roll the brix-P-MF with a spike roller to de-aerate the material. When the material is sufficiently cured existing joints in the substrate must be carried through into the brix-P finish. Ensure to maintain continuity of wet material between pours (max. 5 – 7 minutes). For cleaning of tools and other contaminants use Tool Cleaner.

## Overcoating

Overcoating should be carried out within 24 hours of application. If longer than 24 hours it will be necessary to lightly grind the surface by mechanical means before overcoating is carried out.

## Application Notes

- Ensure that the ambient temperature remains above 10°C for at least twenty-four hours after installation.
- Protect the installed floor finish from damp, condensation, & water for at least 24 hours at 20°C.
- The installed floor should be protected from other trades using Kraft paper or similar breathable material e.g. Correx sheet. Polythene should not be used.
- As with all aromatic based polyurethane products light colors exposed to UV light, PU systems will be prone to cosmetic discoloration (yellowing of the surface), however this does not affect the physical or chemical resistance properties of the installed product.

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## **Cleaning & Maintenance**

The cleaning and maintenance of brix-P systems must be considered a vital and integral part of an overall hygiene program covering all areas of the processing plant. Regular cleaning and maintenance will ensure that the floor maintains the performance profile listed below.

The method of cleaning and choice of cleaning equipment and / or agent should match the soil conditions and level of sanitation required. All brix-P systems will withstand water wash down processes at continuous sanitizing temperatures as well as fumigation. brix-P-RT can be cleaned routinely by the direct application of a water-steam mix.

## **Further Information**

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local regulations concerning the safe handling of resin-based coating materials must be observed. Suitable protective clothing including suitable eye protection must be worn at all times.

All consumptions listed are for recommendation purposes only. Detailed application instructions & system build-up advice can be provided on request through our Technical Services team.

Brix products are guaranteed against defective material and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.