

brix-E-HBC is a pigmented, solvent-free, easily applied, high-build epoxy floor coating, designed to protect concrete substrates.

brix-E-HBC is typically applied in two coats for a smooth finish, however can incorporate graded quartz aggregate between coats to provide a slip-resistant textured finish.

Compressive Strength

>60 N/mm²

Flexural Strength

>40 N/mm²

Tensile Strength

>15 N/mm²

Bond Strength

>1.5 mPa

Specific Gravity

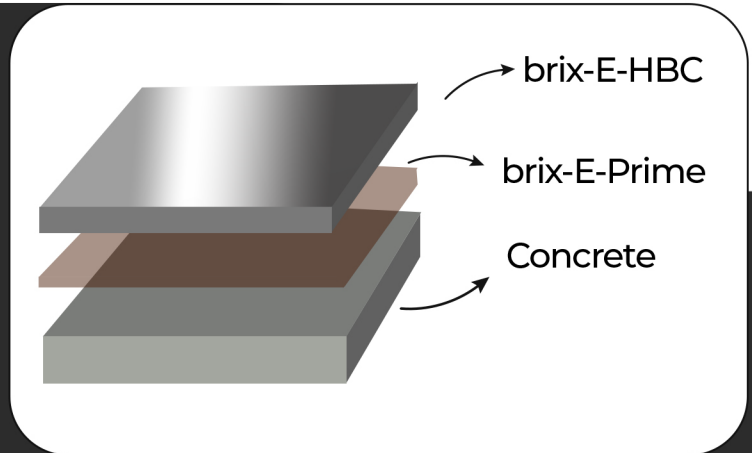
1.46 g/cm³ @ 25°C

Viscosity

2000-3000 mPa

Working Time

~20 – 25 minutes @ 25°C (usable working life of material following



mixing and immediate spreading as per the application instructions).

brix-E-HBC provides an impervious, easy-to clean, hygienic and seamless surface with excellent wear and chemical resistance as well as high mechanical strength.

brix-E-HBC is designed for use in aggressive industrial areas subject to frequent foot traffic.

Abrasion Resistance

80 mg loss per 1000 cycles (Taber Abrader)

Thermal Resistance

Tolerant Upto 60°C

Shore D Hardness

82

Coverage

The recommended coverage of brix-E-HBC is 0.3kg/m² to 0.4 kg/m².

Speed of Cure

Light Foot Traffic – 18 hours

Light Wheeled Traffic – 24 hours

Heavy Duty Traffic – 72 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

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

brix-E-HBC is 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/mm² and a minimum tensile strength (pull-off) of 1.5 N/mm². The concrete substrate must be a minimum of 28 days old and the residual moisture content must be a maximum of 4% CM. Where the concrete substrate is in contact with the ground, an effective damp proof membrane should have been incorporated into the slab design.

Substrate Preparation

Substrates should be mechanically prepared using captive vacuum enclosed shot blasting or 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. Imperfections in the concrete (holes and cracks) should be filled using epoxy patching compound.

Application Instructions

Priming

If the slab requires priming, brix-E-Prime is recommended. Allow to cure before applying the brix-E-HBC. To improve inter-coat adhesion, broadcast aggregates while the primer is still wet. For details of other specialist primers contact our Technical Department.

Mixing

The contents of the brix-E-HBC (Part A) should be mixed for approximately 2 – 3 minutes. The contents of brix-E-HBC (Part B) should be drained into the brix-E-HBC (Part A) component and the two materials thoroughly mixed at speed of 350 rpm for two minutes. The mixed liquid should then be poured into a clean suitably sized separate mixing container and mixed for a further 1 – 2 minutes. Add the contents of the Filler C to the mixed resin and mix for a further three minutes or until homogenous.

Application

brix-E-HBC should be poured onto the surface in portions and spread over the entire area using a flat bladed rubber squeegee or notched trowel at a rate of 0.30 kg/m² before being back-rolled with a spike roller. A two coat application is recommended. Broadcast with Natural Quartz (0.7 – 1.2 mm) while the brix-E-HBC coating is still wet if seeking a slip-resistant textured finish. Once cured, seal the anti-slip profile with one to two coats of brix-E (Universal)

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.

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 to 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 and system build-up advice can be provided on request through our Technical Services team.

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.