

Epoxy HB Coating

Resafloor Epoxy HB Coating is a two-pack high-performance floor coating based on high solids epoxy resin technology which is designed to provide tough and durable floor coating for a wide range of applications. The coating will provide a gloss finish to which anti-slip aggregate can be added if required.

PRODUCT DATA		TECHNICAL INFORMATION			
Volume Solids	: ~100%	The following figures are obtained from laboratory tests and our experience with this product. Category Guide : FeRFA Type 2 Bond Strength : >3 N/mm² (Substrate failure) (BS EN 13892-8:2002) Flexural Strength : 3.2 N/mm² (ISO 178:2010) Impact Resistance : Class II (BS EN 1504-2:2004) Tensile Strength : 3.6 MPa (BS EN ISO 527-2:2012) Reaction to Fire : Bfl-s1 (BS EN 13501-1:2018) Compressive Strength : 9.6 MPa (BS EN ISO 604:2003) Temperature Resistance : Tolerant of temperatures up to 60°C Abrasion Resistance : 140mg loss per 1000 cycles (ASTM D4060) Ease of Decontamination : Excellent (ISO 8690:1988) Capillary absorption : w < 0.1 kg/m2.h0.5			
VOC	: <200 g/l calculated per full mixed unit				
Finish	: Gloss				
Colours	: 2 Standard : 6 RAL Shades				
Flash Point	: N/A				
Cleanser/Thinner	: Thinning not recommended				
Pack Size	: 5kg Units				
Pack Weights	: 4.15 kg base/0.85 kg hardener				
Mixing Ratio	: 5 parts base to 1 part hardener by weight only				
Mixed Density	: ~1.60 g/cm³				
Shelf Life	: 36 months (Base and Hardener) when stored in unopened containers				
Storage	: Keep out of direct sunlight. Store in a dry place, between 5°C - 30°C				
Application Methods	: Brush, roller or squeegee.				
CONSUMPTION					
Material consumption is 0.5kg/m2 per 2 coats. This is only a guide rate based on an average yield. The coverage rate will vary depending on the texture and porosity of the substrate, film thickness and method of application. Softer and more absorbent screeds and concrete will use more material. Smaller projects (less than 100m2) often have a higher final consumption due to material loss in the roller heads and brushes.				Unit Size	5 kg
				Over 100m2	0.5 kg/m2
				Less than 100m2	0.55 kg/m2
				Less than 50m2	0.6 kg/m2
TYPICAL PROPERTIES					
Minimum recoating intervals: 12 to 16 hours or once surface has lost tackiness. Pot Life: 15 to 30 minutes from mixing (temperature dependant). Pot life refers to the usable working life of the material following mixing and immediate application.		Curing Period	10oc	20oc	30oc
		Light Traffic	48 hrs	16 hrs	12 hrs
		Full Traffic	72 hrs	48 hrs	40 hrs
		Full Cure	12 days	7 days	5 days
		Pot life	30-40 mins	15-20 mins	5-10 mins

SUITABLE SUBSTRATES
Epoxy HB Coating is designed and tested for application to concrete or cement-based substrates and or overcoating existing epoxy resin flooring systems where a good mechanical key has been achieved.
SUBSTRATE REQUIREMENTS
Concrete substrates must be sound with a minimum compressive strength of 25 N/mm ² , a minimum tensile strength of 1.5 N/mm ² and a relative humidity at the surface of no more than 75%. It is essential that all laitance, surface sealers and curing membranes and any surface contamination, such as oil, grease and dirt, existing coatings and loose material is removed by suitable mechanised equipment.
SURFACE PREPARATION
Concrete surfaces should be prepared by grinding or mechanical abrasion as required to achieve a surface texture which will function as a mechanical key to maximise adhesion of the resin system. Thoroughly vacuum the surface and any joints to remove all loose dust and debris. Ensure that all preparation is carried out to the edges of slabs, walls etc. to ensure full bonding of the system to a sound surface. Any debris should be recovered from the floor surface and joints etc.
TEMPERATURE: APPLICATION CONDITIONS
Throughout the application and curing process, substrate temperature ideally should be between 15°C - 25°C and a relative humidity <75% RH, with a minimum air temperature of 15°C and no condensation. Do not pre-warm the resin products because chemical reaction will be accelerated reducing working time but will not reduce the overall curing period. If pre-warmed materials are applied to a cold slab thermal shock effects can occur. The substrate, materials and air temperature need to be as similar as possible for the best results. In high humidity or water contact during the application or curing period resin coatings may produce a white misty finish (blooming). Try to reduce air humidity to prevent the effect of blooming.
MIXING AND APPLICATION
Using a helical mixing paddle in normal handheld drill, mix Part labelled A Base for 1 minute to ensure any solids and pigments are well dispersed. Add all of part labelled B Hardener to part labelled A base. Always use the whole hardener supplied as part of the Unit. If you do not add the whole hardener the base resin cannot fully cure. Mix the combined Parts for at least 2 minutes until the mix is consistent and homogenous. Immediately pour the mixture into a wide base paint scuttle and aim to use the material within 10 minutes. Do NOT modify the product in any way with solvents. The mixed unit should be applied immediately by roller, brush or squeegee with a consistent procedure. Floor areas should be cross rolled to ensure even application and to minimise roller marks.
WARRANTY
Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Resafloor can accept no liability for the performance of the product, or for any loss or damage arising out of such use. The information detailed in this datasheet is liable to modification from time to time in the light of experience and normal product development, and before using, customers are advised to check with Resafloor of the most up to date information.
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