



HS Epibond

Two Component Solvent Free Epoxy Resin Based Bonding Agent

Product composition: HS Epibond is a 2 component, solvent free epoxy coating comprised of epoxy resin & hardener. After application to old, cured concrete surfaces, the product provides a permanent bond for new, freshly mixed concrete, mortar etc. The final bond strength is greater than the tensile strength of concrete which helps the total matrix to act in a monolithic fashion.

Standards: ASTM C881 Type II Grade 2 Class B & C

USP

Strength	As the 'bond strength' provided is remarkably higher than the concrete itself, no bond failure is likely to occur
Adhesion	Gives brilliant adhesion to almost all construction materials
Application	Easy to mix & apply by hard brush, 'solvent free'
Moisture Tolerant	Provides excellent bond with old to freshly mixed concrete
Durability	Offers permanent bond to the structures joined
Resistance	Resistant to chemical/microbial attack
Workability	Enough open time to execute the work in a professional manner
Shrinkage	Comparatively very minimal shrinkage than PMM bonding agents, hence higher sealing & water resistance

Usage Area

- Bonding for old to new concrete / mortar / renderings
- Bonding agent for granolithic toppings, glazed tiles, bricks, ceramic or terrazzo tiles etc.
- It is suitable for use wherever structural bonding is required with concrete / mortars

DIRECTION FOR USE

Surface Preparation: Clean the surfaces thoroughly; all loose particles, oil, fat, grease, laitance, dust, debris, fungus and moss, floor hardeners, curing compounds, bitumen and paint need to be removed in order to achieve required bond strength. Glossy surface shall be abraded.

- All laitance, friable concrete must be removed by chipping, scrabbling or grit blasting until a sound base is obtained
- Remove dust and dirt by mechanical scarification such as sanding, wire brushing, scrapping or grit blasting
- Visible signs of oil, fat, grease, mold growth, lichen or algae can be removed by acid etching and treating with a bio-wash, finally followed by jet cleaning with water

Newly stiffened concrete should have cured until the shrinkage & moisture movement is low. Surfaces heavily impregnated with mould release oil shall be degreased & grit blasted or mechanically scrapped off to remove the contaminated surface. All curing compounds should have disintegrated. Application carried out only onto a clean, dust free, sound surface.

Mixing: First stir the Base and Hardener thoroughly in their individual packs to achieve the uniform consistency. Pour the Base part in an appropriate container followed by the Hardener part and mix them thoroughly by using a stout palette knife or spatula. Larger quantity can be mixed homogeneously by a slow speed mechanical drill (~ 200 -300 rpm for around 2-3 minutes), fitted with a paint mixing paddle.

APPLICATION

- HS Epibond should be applied evenly across the whole surface with a clean, short haired hard brush or a laying-on trowel. Special care shall be taken while applying over the dents & depressions.
- Overlay of concrete or mortar needs to be placed within the product's tack free time period.
- If the application has dried before placement, apply a 2nd coat before placing the concrete / mortar.
- Finally, spray the surface with curing product HS Curecrete WP.

Usage Precautions

1. Before HS Epibond application gets tack free, apply the new concrete or mortar. Tack Free Time (TFT) depends on ambient temperature. Higher the temperature, shorter the TFT.
2. The product must always be applied on older concrete substrate.
3. In case of rendering & screed application, it is essential that granolithic paving & sand cement renders are cured. This can be achieved by curing with a fine spray of HS Curecrete WP

TECHNICAL INFORMATION

Properties		Results	Specification/Standards
Color	Base	White	
	Hardener	Dark Grey	
	Mix	Grey	
Mixing Ratio (Base : Hardener)		2:1 (by wt.)	
Mix appearance		Viscous liquid	
Mixed density at 30°C		1.60 ± 0.10	
Pot life at 30°C (~ 100g. mix)		4 – 5 Hours	
Surface Drying Time @30°C		~ 60'	
Tack free time at 30°C		~ 90'	
Full cure at 30°C		7 Days	
Sheer Bond Strength		Concrete Failure	ASTM C:881
Application Temperature Tolerance		(15 – 35)°C	
Compressive Strength, N/mm ²	3 days	30 - 40	
	7 days	45 - 55	

PRODUCT DESCRIPTION

Shelf Life	Best before 12 months from date of production, if stored properly in unopened, undamaged, original packaging in dry conditions at (5 - 30)°C with protection from direct sunlight & frost.	Safety Precautions	Avoid prolonged skin contact. Wash irritated skin with soap & water. Remove contaminated clothes. In case of ingestion, do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician. Avoid contact with foodstuff & utensils. In case of eye / mouth contamination, wash thoroughly with plenty of clean water immediately & seek medical advice. Keep away from children. Please consult the respective MSDS prior to use.
Coverage	Around 35 ft ² / Kg in single coat Coverage may vary depending on the substrate		

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