



Product Information Sheet

March 2014

EPITEK FLEXICOAT

Description

Epitek Flexicoat is a high performance epoxy-based material designed to provide a flexible primer layer for further coating applications. The increased flexibility allows for increased mechanical vibration resistance prolonging the life of more brittle top coat materials.

Typical Uses

Epitek Flexicoat is typically used as a flexible primer layer to corrosion resistant linings applied a large range of surfaces. The corrosion resistant lining is sometimes brittle, and is susceptible to mechanical failure due to the flexural and impact strains during use. Epitek Flexicoat reduces the mechanical damage experienced by the working lining, extending its service lifetime.

Alternatively, a mineral or rubber filler can be blended with the resins to create a flexible screed that can withstand impact damage.

Advantages

Epitek Flexicoat provides a flexible coating that can enhance and extend the working lifetime of a more brittle top coat material. The flexibility of the primer means that the top coat does not experience significant levels of mechanical flexing which can lead to cracks and premature failure of the working lining.

Chemical Resistance

Full details are available on ACCS website: www.protectivelinings.co.uk. Epitek Flexicoat is not suitable for working with any acids, alkalis or organic materials.

Surface Preparation

For all pre-existing surfaces of metal or concrete, abrasive blast or scarify to remove all laitance and surface contaminant. The surface should be dust-free and dry and the ambient temperature should be above the dew point of air.

Application

Epitek Flexicoat typically comprises an epoxy solution and an epoxy-based hardener. Prior to application, the epoxy components must be mixed thoroughly before application. Ensure that both the epoxy solution and hardener components are at approximately 20°C before mixing to ensure sufficient viscosity before mixing. Values are an intended guide.

Mixing Ratio	1 parts Solution to 1.34 parts Hardener
By weight	~18.5kg Solution to 25kg Hardener
By volume	~1L Solution to 1.5L Hardener

Place solution in the mixing vessel first and then add the hardener. Mix thoroughly for at least 3 minutes. Where a filler powder is required, please contact ACCS Ltd for further advice. Apply by paint brush, roller or float/trowel depending on thickness/application desired. Apply until a smooth coating has been established. Leave to cure, and if necessary apply second coat 12-16 hours but not later than 48 hours after the first, to even off the finish and give an attractive gloss. Where a secondary coat is required, the application of a fine quartz scatter before full cure is recommended to provide a key for subsequent layers. Where necessary, enhanced strength and durability of Epitek Flexicoat coatings can be achieved through the addition of a fine weave glass matting material. Please contact ACCS Ltd for more information.

For all trowel/float applications, regular brushing of tools with solvents ensures a smooth (non-drag) finish. However, do not apply too much solvent or this will lead to blistering of the epoxy finish.

For screed/concrete Epitek Flexicoat products place the epoxy solution and hardener components into an incline forced action mixer and mix for 3 minutes. Then slowly add the appropriate filler powder and mix for an additional 5 minutes. Once fully mixed, the screed/concrete can be poured out into place, where tamping methods or pencil vibration are suitable for distributing the material. Use a trowel, float or screed board to level the product flush with the top of the former. Apply until a smooth surface has been established without allowing the materials to form into pools or flood the area.

All tools and equipment should be cleaned off with solvents and damp cloths to ensure their continued use.

To provide anti-slip facilities to the coating / screed / concrete, it is recommended that the mixed product is allowed to cure for 4 hours before application of an anti-slip scatter material. Please contact ACCS Ltd for further information.



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Industrial Protective Linings

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If pigmentation is required, please contact ACCS Ltd for more information. Colours are available in white, grey, black, green, blue, red and yellow.

Pot-Life of mixed Epitek Flexicoat

- at 20°C – 60mins
- at 30°C – 30mins
- at 40°C – 15mins

An initial set occurs approximately 5hours after mixing, light foot traffic permissible after 12hours and with a full chemical cure occurring after 5-7days. Epitek Flexicoat should never be exposed to water or steam environments before the primer is completely cured.

Note: Do not mix more material than required by pot-life. It cannot be reconstituted. Never add unapproved materials to the mix, in particular water. After mixing spread out on to the surface to avoid self – generated heat. Large mixed volumes that are not thinned will flash set, becoming extremely hot and producing smoke.

Coverage

Typical coverage on a relatively smooth concrete surface for a mixed Epitek Flexicoat system is 0.5kg/m².

Values are approximate requirements.

Standard Packing

Solution – 25kg in 25L UN drums (24 per pallet)

Hardener – 25kg in 25L UN drums (24 per pallet)

Storage

Store in a cool, dry, frost-free place. Normal storage conditions in up to 25°C should provide shelf life of:

Solution – 12 months

Hardener – 12 months

Do not store a combined stack of Solution and Hardener components. Accidental leakage could lead to flash setting of material, producing smoke. Storage at, or exposure to, high temperatures may initiate a

setting reaction. Prior to mixing, ensure epoxy solution and hardener components are heated to approximately 20°C to ensure sufficient viscosity for mixing.

Safety

Safety data information available on request. Adequate ventilation must be provided whilst work is in progress and is compulsory for closed or indoor applications. The instructions on storage, fire and explosion are to be observed. No releases to the sewers or drains are to be permitted under any circumstances. Always refer to MSDS data sheets for hazard and transport information.

Ventilation is required with special consideration for enclosed or confined areas. Air movement must be designed to ensure turnover at all locations in work area and adjacent areas to avoid build-up of heavy vapours.

Warranty

We warrant that our products will conform to the description contained in the order and that we have good title in all goods sold. WE PROVIDE NO WARRANTY, WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE, OR OTHERWISE, EXPRESS OR IMPLIED, OTHER THAN AS EXPRESSELY SET FORTH HEREIN. We are glad to offer suggestions or to refer you to customers using ACCS Ltd cements and compounds for similar applications. Users shall determine the suitability of the product for intended application before using, and users assume all risk and liability whatsoever in connection therewith regardless of any suggestions as to application or construction. In no event shall we be liable hereunder or otherwise for incidental or consequential damages. Our liability and your exclusive remedy hereunder or otherwise, in law or in equity, shall be expressly limited to our replacement of non-conforming goods at our factory or, at our sole option, to repayment of the purchase price of non-conforming goods.

Technical Data

Parameter	Test Method	Unit	Paint / Coating
Density		kg/m ³	1180
Maximum Operating Temperature		°C	105
Coverage – mixed primer		m ² /kg	2

Disclaimer

The technical data contained in this document represents the current state of our product knowledge and is for information purposes only. It does not constitute a guarantee or specification.