

ULTRAKOTE HIGH SOLIDS EPOXY

High Solids, High Build, Epoxy Coating



MATERIAL DESCRIPTION

UK-HS Epoxy is a high build epoxy floor coating system designed to offer seamless durable floor protection at applied thicknesses between 0.2-0.4mm. With the addition of anti-slip aggregates between coats, slip resistant applications can be achieved.

AREAS OF APPLICATION

UK-HS Epoxy is suitable for use in a wide variety of industrial and commercial applications. It can be used to provide a high gloss hygienic finish or a slip resistant finish. UK-HS Epoxy can be used extensively in but is not limited to the following areas of application:

- Garages/Sheds
- Warehouses
- Multi-level carparks
- Chemical industries
- Industrial Environments
- Warehouses with high density traffic
- Car production and workshop facilities
- Pharmaceutical and cosmetic facilities
- Water and sewerage treatment plants
- Electronic and electrical industries
- Food and drink processing plants

CHARACTERISTICS AND BENEFITS

- Excellent wear and abrasion resistance – long term floor protection
- Smooth and glossy finish – good aesthetics and easy to clean
- Slip resistant finish – ensures safe shop floor
- Easy application by brush, roller or squeegee enables faster completion
- Wide range of colours – attractive & aesthetically pleasing floors
- Good chemical resistance – can be used for chemical spillage areas

PROPERTIES

Supply form	Liquid	
Colour	Range of colours	
Mix ratio (by volume)	(A:B) 3:1	
Mixed density	1.5kg/L	
Application temperature (ambient & substrate)	MIN 8°C	MAX Max 35°C
Overcoating Time	8hrs	36hrs
Curing Times	INITIAL 24hrs	FULL 7 days

CHEMICAL RESISTANCE

Fully cured UK-HS Epoxy samples have been tested for chemical resistance to the following chemicals for 7 days @ 25°C:

Lactic Acid 10%	Resistant (color change)
Citric Acid 10%	Resistant
Acetic Acid 10%	Resistant
Hydrochloric Acid 18%	Resistant (color change)
Sulphuric Acid 50%	Resistant (color change)
Nitric Acid 20%	Resistant (color change)
Sodium Hydroxide 50%	Resistant
Ammonia (0.880) 10%	Resistant
Petrol	Resistant
Mineral Oil	Resistant
Butanol	Resistant
Skydrol	Resistant
Saturated sugar solution	Resistant
Saturated urea solution	Resistant

As in all corrosive situations, a full analysis of operating and exposure conditions is required, followed by reference to chemical resistance data to ensure product suitability

PERFORMANCE DATA

Pot life	Approx. 45 minutes
Max. service temperature	60°C
Flexural strength(ASTM C580)	40N/mm ²
Tensile strength (ASTM C307)	20N/mm ²
Bond strength BS 1881 Part 207	>1.5N/mm ²

Laboratory tests carried out at 25°C

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PREMIUM GRADE PROTECTIVE COATINGS

APPLICATION

Remove all surface laitance, oil, grease or any defective concrete that will reduce the bond of the UK-HS Epoxy. The surface to which the UK-HS Epoxy is to be applied must be flat. Surface must be diamond grinded and free from any imperfections that may cause system to fail.

A light etched surface giving the profile of medium grit sandpaper is the ideal for the application of UK-HS Epoxy, this can be achieved by light grit blasting, captive blasting or surface grinding to achieve CSP3 surface profile. After all preparation has been completed, ensure dust is removed from the surface.

POT LIFE

Pot life will vary depending on the ambient temperature, quantity mixed and placed.

Approximately 45 Minutes at 20 Degrees

CURING

Cure time depending on ambient/substrate temperatures. UK-HS Epoxy will cure to a tack free surface within 6 hours at 23°C, is overcoatable after 18 hours (however not more than 36) and should be protected from traffic/spillage for at least 36 hours. Full chemical and mechanical resistance is obtained after 7 days @ 23°C.

CLEANING

Use thinners to clean equipment and tools before the material hardens. Cured material can only be removed mechanically.

ESTIMATING DATA

Over dense surfaces with texture similar to fine-medium sandpaper, the coverage rate is 5m² per litre per coat. On more porous surfaces or in non-skid textures, typical coverage rate is 4m² per litre per coat.

UK-HS EPOXY wet film thickness				
L	Thickness in mm/m ²	m ³	Pails /m ³	m ² /mm thickness
20	20mm	(0.02)	50	20 m ²

PACKAGING

UK-HS Epoxy is supplied in 15kg kits comprising:

Part A: 12kg

Part B: 2kg

Pigment: 1kg

NOTE: Where Dark, light or vibrant colours, (Black/white or Red/Yellow etc.) are required, the addition of extra colour packs are advised to ensure opacity. A third coat is also recommended. UK-HS Epoxy may change in appearance when exposed to UV light.

SHELF LIFE

UK-HS Epoxy can be stored in tightly closed original containers for 12 months in controlled environments.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.



LEGAL

This data sheet is to provide information on the product based on current knowledge. It does not constitute a guarantee and we recommend that testing should be undertaken to ensure that the final result is satisfactory for the intended application. The quality of the product is guaranteed under our General Conditions of Sale.

The information, and, in particular, the recommendations relating to the application and end-use of UltraKote products, are given in good faith based on UltraKote's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with our recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. UltraKote reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of Product Data Sheet for the product concerned, copies of which will be supplied on request.

The user is responsible for checking the suitability of products for their intended use and for ensuring that the application and use of the product is in accordance with the manufacturer's guidelines and recommendations. Suggestions made by UltraKote Australia either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not UltraKote, are responsible for carrying out procedures appropriate to a specific application.