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The Engineer's Choice

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ADVANCED POLYMER SURFACE ENGINEERING TECHNOLOGY

Unique Polymer Systems – HB Dressing Two Component Solvent Free Epoxy Coating



UPS HB Dressing is a high performance solvent free ceramic reinforced heavy duty coating designed for use for long term floor protection.

UPS HB Dressing is based on a unique blend of epoxy resins and poly-amino amine adducts reinforced with a blend of inert pigments and inorganic ceramic particles to produce the optimum level of adhesion, abrasion, impact and chemical resistance which will provide excellent long term protection to industrial floors operating within aggressive environments.

UPS HB Dressing is simple, safe and easy to use, provides a seamless easy to clean surface and is ideal for use in dairies, breweries, canteens, food factories, pharmaceutical plants and warehouses.

Before proceeding, please read the following information carefully to ensure that the correct application procedure is fully understood.

SURFACE PREPARATION

All surfaces should be clean, dry and free from contaminants. Concrete surfaces should have all surface laitance removed by mechanical means e.g. light abrasive blasting or grinding, any resulting dust and debris should be swept away.

Non Porous Surfaces: Including tiled and power floated concrete should be primed with UPS Uni-Tech G.P. Primer in accordance with the product tech sheet.

Porous Surfaces: Including concrete and mineral surfaces should be primed with UPS Floor-Tech S.P. Primer in accordance with the product tech sheet. Rough and pitted concrete should be planed smooth and filled with UPS Grano-Tech or UPS Floor-Tech R.S. then primed with UPS Floor-Tech S.P. Primer in accordance with the product tech sheet.

Previously Coated Surfaces: Any loose/flaking material must be removed. Surfaces should then be thoroughly cleaned and abraded then primed with UPS Uni-Tech G.P. Primer in accordance with the product technical sheet.

Metal surfaces: Should be abrasive blast cleaned, any resulting dust and debris should then be swept clean. Prepared surfaces can then be directly coated with UPS HB Dressing

MIXING

UPS HB Dressing is a two component material comprising base and activator components which must be mixed together prior to use.

Stir the base component, continue stirring whilst adding all the contents of the activator component and mix until homogeneous. To ensure thorough mixing it is advisable that the mixed product is transferred to another container and the original container is scraped out, and further mixing carried out to ensure a homogeneous mix is obtained.

The mixed product must be used within 45 minutes of mixing at 20°C (68°F).

APPLICATION

UPS HB Dressing should not be applied when the relative humidity exceeds 90% or when the surface to be coated is less than 3°C above the dew point.

It is not advisable to apply UPS HB Dressing when the surface is less than 10°C (50°F).

UPS HB Dressing can be applied by good quality brushes or medium pile rollers. The coating should be applied evenly with regular checks being made to ensure the correct film thickness is applied.

When application involves areas of an intricate nature it is advisable to split the mixed material into small quantities and use two applicators to avoid the material becoming unusable before application is complete.

Slip Deterrent System

To provide a slip deterrent system UPS HB Dressing should be mixed and applied as before to the primed surface. Whilst the coating is still wet the appropriate grade of UPS Grip can be scattered into the surface at approximately 25 gm (1 oz.) per square metre, to produce a medium density grip. After overnight curing any loose aggregate can be removed and if required a further seal coat of UPS HB Dressing can be applied.

Alternatively, UPS Grip can be stirred into the mixed UPS HB Dressing prior to application, and then applied by roller to provide a one coat slip deterrent finish.

Note: When tested to Clause 12.5 of BD29/87 in wet conditions a complete covering of UPS HD Grip produces an anti-slip factor of 99.4

All equipment must be cleaned IMMEDIATELY after use with UPS Universal Cleaner.

Theoretical Coverage Rate

5 m² / litre at 200 microns dft (53 ft² per litre at 8 mils dft)

Recommended Film Thickness

Wet 200 microns (8 mils)
Dry 200 microns (8 mils)

Detailed working recommendations are available from the Technical Centre on request.

PHYSICAL CONSTANTS

Mixing Ratio 2 parts base to 1 part activator by volume

Appearance Base Thixotropic Coloured Liquid
Hardener Clear Straw Coloured Liquid

Drying & Cure times at 20°C (68°F)

Usable Life	45 minutes
Touch Dry	6 hours
Hard Dry For Service	24 hours
Minimum Overcoating	16 hours
Maximum Overcoating	3 days
Full Cure	7 days

Volume Solids 100%

V.O.C Nil

Shelf Life Use within 5 years of purchase. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F).

Food Contact

Meets USDA requirements for incidental food contact.

Meets FDA CFR 21.175.300 requirements for food contact.

FOR FURTHER INFORMATION PLEASE CONTACT



PHYSICAL PROPERTIES

Abrasion Resistance ASTM D4060	20 mg per 1000 cycles, CS17 wheel 1kg load
Impact Resistance ASTM D2794	3.95 joules (35 ins/lbs)
Adhesion ASTM D4541	35 kg/cm2 (500 psi)
Scratch Resistance BS3900-E2	No Failure at 2.5 kg (5.5 lbs) load
Compressive Strength ASTM D695	650 kg/cm2 (9250 psi)
Tensile Strength ASTM D638	160 kg/cm2 (2275 psi)

HEALTH AND SAFETY

As long as normal good practice is observed UPS HB Dressing can be safely used.

Protective gloves should be worn in confined areas.

A fully detailed Material Safety Data Sheet is either included with the material or is available on request.

PACKAGING

Supplied in 5 and 20 litre packs.

The information provided in this Product Data Sheet is intended as a general guide only and should not be used for specification purposes. The information is given in good faith but we assume no responsibility for the use made of the product or this information because this is outside the control of the company. Users should determine the suitability of the product for their own particular purposes by their own tests.



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