



# TECHNICAL DATA SHEET

## UPS 701 FB Urethane Floor Coating

### Two Component Solvent Free Polyurethane Coating

**UPS 701 FB** is a high performance solvent free ceramic reinforced polyurethane system specifically developed for use as a high build flexible floor coating.

**UPS 701 FB** is formulated on a complex blend of high molecular weight polyols and urethane polymers, reinforced with ceramics and inert pigments which produces a system with outstanding abrasion, impact and chemical resistance coupled with a high degree of flexibility. This results a product suitable for the long term protection of industrial floors operating in the most aggressive of environments offered in a variety of colours.

**UPS 701 FB** has excellent adhesion to almost any mineral surface in combination with **UPS 903 FB Primer** or **UPS 901 CS Sealer** and is ideal for long term protection of car parks and floors in factories, warehouses, kitchens, dairies, breweries or any area where long term maintenance free protection is required.

**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 loose material. Concrete surfaces should have all surface laitence removed by mechanical means.

**Porous Surfaces:** including concrete, timber and certain asphalts should now be primed with **UPS 903 FB Primer** or **UPS 901 CS Sealer**, in accordance with the product tech sheet.

**Non Porous Surfaces:** including quarry tiles, power floated concrete and certain hot rolled asphalts should be primed with **UPS 904 GP Primer** in accordance with the product tech sheet.

**Existing Coatings:** should first be checked for adhesion to the substrate then be primed with **UPS 904 GP Primer** in accordance with the product tech sheet.

If in doubt about the choice of primer consult the **UPS Technical Department**.

### MIXING

**UPS 701 FB** is a two component material comprising base component and activator component which must be mixed together prior to use.

The base component should be stirred and whilst continuing stirring, the activator component should be added with mixing continuing until a homogeneous mix results. The use of a mechanical mixer is advisable to ensure thorough and complete mixing.

Where a slip resistant finish is required then **UPS L.D. or H.D. Grip** should be added to the **UPS 701 FB** as follows:

Normal Dry Service Areas: **UPS Grip** should be scattered on the freshly applied **UPS 701 FB** at approximately 60-100 gm/m<sup>2</sup>, then rolled in to completely encapsulate the grip into the system.

For Ramps or Wet Conditions: Approximately 200-300 grams per m<sup>2</sup> of **UPS H.D. Grip** should be scattered into the wet film and rolled in encapsulating the **UPS H.D. Grip** into the wet film.

**Note:** When tested to Clause 12.5 of BD 29/87 in wet conditions a complete covering of **UPS HD Grip** produces an anti-slip factor of 99.4.

The mixed product must be used within 25 minutes of mixing at 20°C (68°F).

### APPLICATION

Application should not be carried out when humidity exceeds 85%.

Application is best carried out when the surface to be coated is above 10°C (50°F).

**UPS 701 FB** should be applied to give a smooth uniform coating by brush or roller with roller being the preferred method particularly for the application of slip resistant finishes.

Both short or medium pile rollers can be used for successful application, with medium pile being preferred on uneven surfaces.

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

#### Theoretical Coverage Rate

4 m<sup>2</sup> / litre at 250 microns dft (43 ft<sup>2</sup> per litre at 10 mils dft)

#### Recommended Film Thickness

Wet 250 microns (10 mils)

Dry 250 microns (10 mils)

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

### PHYSICAL CONSTANTS

**Mixing Ratio** 3 parts base to 1 part activator by volume.

**Appearance** Base Viscous Coloured Liquid  
Activator Dark Brown Liquid

#### Drying & Cure times at 20°C

Usable Life	25 minutes
Touch Dry	5 hours
Hard Dry	16 hours
Minimum Overcoating	16 hours
Maximum Overcoating	48 hours
Full Cure	7 days

**Volume Solids** 100%

**V.O.C.** Nil

**Shelf Life** Use within 2 years of purchase. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F).

### PHYSICAL PROPERTIES

<b>Abrasion Resistance</b> ASTM D4060	80 mgm weight loss per 1000 cycles - 1 kg load - CS17 wheel
<b>Impact Resistance</b> ASTM D2794	12.43 Joules (110 in lbs)
<b>Elongation</b> ASTM D412	55%
<b>Direct Pull Adhesion</b> ASTM D4541	6.5Mpa - Steel 3.5Mpa – Concrete (Concrete Failure) 3.5Mpa Asphalt (Asphalt Failure)
<b>Tensile Strength</b> ASTM D638	11Mpa (1565psi)
<b>Scrub Resistance</b> ASTM D2486	>10,000 cycles
<b>Scratch Resistance</b> BS3900 Part E2	No failure 2.5 kg (5.5 lbs) load

### HEALTH AND SAFETY

As long as normal good practice is observed **UPS 701 FB** can be safely used.

The use of protective gloves is advisable during use.

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

### PACKAGING

Supplied in 4 and 20 litre packs.

### COLOURS

Available in: Light grey, mid grey, dark grey, stone, red and mid grey

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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