

TECHNICAL DATA SHEET

UPS 706 XSL Epoxy Screed (Incorporating Floor-Tech XSL Anti-Static) Three Component Solvent Free Epoxy Self-Levelling Coating

UPS 706 XSL is a high performance solvent free epoxy self-levelling floor screed designed for use on almost any worn or uneven floor area.

UPS 706 XSL is based on a special blend of epoxy resins combined with formulated polyamines which have been specially selected to provide the optimum level of adhesion, abrasion, impact and chemical resistance. The aggregate within the system is comprised of a blend of silica quartz minerals carefully chosen to provide ultimate application, levelling and performance properties.

UPS 706 XSL is simple to mix and apply and offers excellent long term protection to industrial floors operating in even the most aggressive environments.

An anti-static grade of **UPS 706 XSL** is available for use where an anti-static finish 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 contaminants. Concrete surfaces should have all surface laitence removed by mechanical means e.g. light abrasive blasting, grinding or scarifying and all resultant dust or debris swept away.

Non Porous Surfaces: Including quarry tiles and power floated concrete should be primed with **UPS 904 GP Primer** in accordance with the Product Tech Sheet.

Porous Surfaces: Including concrete and mineral surfaces should first be filled with **UPS 803 GT**, or **UPS 705 RS**, if required.

The prepared surface should then be primed with **UPS 902 SP 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 904 GP Primer** in accordance with the Product Tech Sheet.

Where an anti-static system is required surfaces must be primed with **UPS 902 SP Primer** Conductive Grade. For detailed guidance contact the **UPS** Technical Centre.

NOTE: For wet service conditions all substrates must be abraded or abrasive blasted before being coated with the appropriate primer.

MIXING

UPS 706 XSL materials are three component products, all components must be mixed together before use. The Base and Activator components should be thoroughly mixed together in the outer container of the pack. After mixing continue stirring and add the total contents of the aggregate bag, care must be taken to ensure thorough 'wetting' of the aggregate to prevent the formation of agglomerates. The use of a mechanical mixer will be advantageous.

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

APPLICATION

UPS 706 XSL should not be applied when the relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point.

It is not advisable to apply **UPS 706 XSL** when the surface is less than 10°C (50°F).

To apply the product, pour the mixed material onto the primed surface and spread with a serrated trowel to the required thickness (the serrations in the trowel should be 2-3 mm deep with a saw tooth pattern to give a 2 mm film thickness and 4-5 mm deep to give a 3 mm film thickness).

After spreading, the use of a spiked roller over the coated area is advised to aid the release of entrapped air.

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

Theoretical Coverage Rate

0.54 m²/kilo at 1 mm dft (6 ft²/kilo at 40 mils dft)
0.27 m²/kilo at 2 mm dft (3 ft²/kilo at 80 mils dft)
0.18 m²/kilo at 3 mm dft (2 ft²/kilo at 120 mils dft)

Recommended Film Thickness

Wet 2 mm (80 mils)
Dry 2 mm (80 mils)

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

PHYSICAL CONSTANTS

Mixing Ratio Mix as supplied.

Appearance

Base	Clear Liquid
Activator	Clear Liquid
Aggregate	Coloured Aggregate

Drying & Cure Times at

20°C/68°F	Usable Life	30 minutes
	Touch Dry	2 hours
	Hard Dry For Service	16 hours
	Minimum Overcoating	2 hours
	Maximum Overcoating	24 hours
	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).

PHYSICAL PROPERTIES

Abrasion Resistance ASTM D4060	45mgm weight loss per 1000 cycles CS17 Wheel 1kg load
Direct Pull Adhesion ASTM D4541	3.5Mpa (500psi) Concrete (Concrete failure)
Compressive Strength ASTM D695	67Mpa (9700 psi)
Flexural Strength ASTM D790	39Mpa (5700 psi)
Impact Resistance ASTM D2794	4.29 joules (38 ins lbs)
Scratch Resistance BS3900 Part E2	No failure 2.5 kg (5.5 lbs) load
Tensile Strength ASTM D683	16Mpa (2300 psi)

Electrical Resistivity

Applied in conjunction with **UPS 902 SP Primer** conductive grade. The **UPS 706 XSL** will have a surface resistance of 5 x 10⁵ to 5 x 10⁶ ohms

HEALTH AND SAFETY

As long as normal good practice is observed **UPS 706 XSL** 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 40 kg 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.



UniquePolymerSystems.com

The Engineer's Choice

... for Solutions

Unique Polymer Systems LTD

Unit 1 Bankside Industrial Estate, Ledbury, Herefordshire, HR8 2DR

Tel: +44(0)1531 63 63 00

E Mail: sales@uniquepolymersystems.com

Web: www.uniquepolymersystems.com