

TECHNICAL DATA SHEET

UPS 601 PU

Single Component Solvent Based Moisture Cured Flexible Coating

UPS 601 PU is a high performance highly flexible coating system specifically designed for use onto a HPS 200 plastisol and other internal and external surfaces.

UPS 601 PU is based on a unique blend of aliphatic resins reinforced with colour stable and chemical resistant pigments to produce a coating which offers a tough durable finish with excellent erosion, weather and UV resistance.

UPS 601 PU has been tested by British Steel/ CORUS for use on Colorcoat® HPS200.

UPS 601 PU carries a manufacturers 10 year warranty against external exposure, chalking or deterioration of the correctly applied system. In accordance with the relevant System Recommendation as issued by the Thortex Technical Department.

UPS 601 PU does not require a primer on HPS 200 and can be applied directly onto the prepared and clean surface.

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.

Plastisol Surfaces - should be detergent cleaned to remove dirt and grime. Loose flaking material must be removed back to a sound edge. Exposed metal surfaces should now be patch primed with UPS A.P. Primer.

Tiled and Existing Coated Surfaces - should be primed with UPS 904 GP Primer in accordance with the product tech sheet.

Porous Surfaces - should be primed with UPS 903 FB Primer in accordance with the product tech sheet.

MIXING

UPS 601 PU is a single component material and should only require stirring prior to use to incorporate any slight separation.

APPLICATION

Provided the prepared surface is dry and free from condensation or ice UPS 601 PU can be applied at temperatures down to 0°C with no restriction on dew point or relative humidity. However, UPS 601 PU should not be applied during rain / snow or when precipitation is likely to occur before the coating has achieved a 'touch dry' state.

UPS 601 PU can be applied by brush, roller or airless spray.

For brush application good quality stiff bristled brushes should be used. The UPS 601 PU should be applied to give a uniform coating thickness.

For roller application medium to long pile rollers should be used with the product being applied to give a uniform coating thickness.

For airless spray application the typical settings are:-
Tip pressure 2500 - 3000 psi, Tip size 13 - 17 thou.

PHYSICAL PROPERTIES

The UPS 601 PU may require thinning for spray application depending on equipment being used when up to 10% by volume of **UPS Polyurethane Thinner** should be added.

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

Theoretical Coverage Rate

8 m²/litre at 75 microns dft (86 ft²/litre at 3 mils dft)

Typical Film Thickness

Wet 125 microns (5 mils)

Dry 75 microns (3 mils)

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

PHYSICAL CONSTANTS

Mixing Ratio Supplied ready for use.

Appearance Viscous Coloured Liquid.

Drying & Cure

Times at 20°C	Touch Dry	4 hours
	Rainfall Resistant	4 hours
	Minimum Overcoating	16 hours
	Full Cure	7 days

Volume Solids 60%

V.O.C. 310 - 250 gms/litre depending on colour

Shelf Life Use within 12 months of date of purchase. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F).

Abrasion Resistance 130mgm weight loss per 1000

ASTM D4060 cycles – 1kg load – CS17 Wheel

Impact Resistance 13.55 Joules (120lbs)

ASTM D2794

Elongation 200%

ASTM D412

Water Vapour Permeability 2.87 x 10⁻⁴ perm.cm

ASTM D1653

UV Resistance No loss of gloss, no colour

ASTM G53 (QUV – B) change after 100hrs exposure

Salt Fog Resistance Excellent, unaffected after

ASTM B117 1000hrs exposure

Scrub Resistance >5000 cycles

ASTM D2486

Humidity Resistance Unaffected 1000hrs exposure

BS 3900 – F2

Tensile Strength 20.5Mpa (3000psi)

ASTM D638

Tear Strength 70N/mm (400 pli)

ASTM D624

British Steel 2mm cross Excellent Adhesion

scribe/Erichson draw test

on HPS 200 Plastisol

coated sheet

HEALTH AND SAFETY

As long as normal good practice is observed UPS 601 PU can be safely used.

Good ventilation should be provided in confined areas.

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 5 and 20 litre units

The information provided in this Product Data Sheet is intended as a general

guide only and should not be used for specific 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.

FOR FURTHER INFORMATION PLEASE CONTACT



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