



*UPS 508 HBBG Urethane Coating* has been specially developed as a 100% solids protection system with a degree of flexibility for hand application to the external of pipes. The product can be used for protection of field girth weld joints on pipeline systems.

#### Product Features

- Combines good application characteristics with excellent corrosion protection and chemical resistance.
- Designed for application by brush at thicknesses between 500-1000 microns.
- Fully compatible with all spray grades of *UPS Urethane Corrosion Coatings*.
- Primarily designed for use on steel surface but also exhibits good adhesion to polyethylene and other common external pipe coating materials, and can also be used on concrete surfaces in combination with *UPS 901 CS*.

#### Product Applications

Protection of field girth weld joints on pipeline systems.

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

#### Surface Preparation

##### Steel Surfaces

Steel surfaces should be abrasive blasted to NACE No 2/SSPC-SP10 near white metal, ISO 8501-1 grade Sa2½. The blast profile is generally specified by the client; a typical profile is 75-100 microns.

##### Concrete Surfaces

Surfaces should be lightly abrasive blasted or mechanically scarified, taking care not to expose the aggregate. All dust and loose residue should then be removed and surfaces then sealed using *UPS 901 CS*.

#### Mixing

The contents of the Base container should be stirred, and while stirring, the contents of the Activator container should be added with stirring continuing until a homogenous mix is achieved.

#### Application Procedures

*UPS 508 HBBG* 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.

*UPS 508 HBBG* is intended for application by brush and should be applied to give a uniform even thickness.

Ideally *UPS 508 HBBG* should be applied in a single high build coat. If a second coat is required for any reason, over coating must be carried out within 24 hours of application of the preceding coat. If the over coating time is extended, thorough mechanical abrading or flash blasting of the first coat should be carried out once the coating is hard dry.

Clean all equipment immediately after use with *UPS TAC 881 Thinners*.

## Physical Constraints

Mixing Ratio	Base	Activator
By Volume	3	1
By Weight	3	1

<b>Colour</b>	Light Grey, 12B21 Note: Not colour stable, where a colour stable finish is required it must be over coated with an appropriate topcoat.
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Drying & Cure Times at 20°C (68°F)	
Useable Life	20 minutes
Touch Dry	4 hours
Hard Dry	8 hours
Full Cure	7 days

<b>Volume Solids</b>	100%
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<b>Film Thickness</b>	Wet/Dry 500-1000 microns
Note: The actual thickness to be applied should be agreed between the specifier and the manufacturer dependent on operational performance criteria and may be higher or lower than the quoted typical value. Detailed method statements are available on request.	

<b>Specific Gravity (Average Mixed)</b>	1.2
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<b>Theoretical Coverage Rate</b>	1m <sup>2</sup> / litre @ 1000 microns dft.
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<b>Standards Met</b>	GBE/CW6 Pt 1
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<b>Shelf Life</b>	Use within 2 years of manufacture date. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F).
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## Physical Properties

<b>Dielectric Strength ASTM D 419</b>	>20KV 400 volts/mil
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<b>Abrasion Resistance CS17 Wheel (ASTM D 4060)</b>	95mgm weight loss per 1000 cycles – 1kg load
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<b>Impact Resistance DIN 30671</b>	10 joules (93 in lbs)
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<b>Elongation ASTM D 412</b>	35%
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<b>Direct Pull Adhesion (Steel) ASTM D 4541</b>	14 Mpa (2030 psi)
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<b>Maximum Operating Temperature</b>	80°C (176°F) – Dry 50°C (122°F) - Wet
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<b>Tensile Strength ASTM D 412</b>	19.5 Mpa (2825 psi)
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<b>Shore D Hardness ASTM D 2240</b>	80
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<b>Corrosion Resistance ASTM B 177</b>	Unaffected after 5000 hours exposure
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## Packaging

UPS 508 HBBG is supplied in the following;

1lt  
2lt

## Health And Safety

As long as normal good practice is observed UPS 508 HBBG can be safely used. Protective gloves should be worn during use.

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

The information provided in this Technical 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 Unique Polymer Systems LTD. Users should determine the suitability of the product for their own particular purposes by their own tests.

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