



UPS 902 SP Epoxy Primer / Sealer has been specially developed as a low viscosity primer / sealer for concrete and cementitious surfaces prior to application of other *Unique Polymer Systems LTD Epoxy Systems*.

Product Features

- Combines good application characteristics with excellent penetration and adhesion.
- Designed for application by brush or roller.
- Designed for use on concrete surfaces but can be used on other porous mineral substrates.

Product Applications

Primer / sealer coat for cementitious surfaces.

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

Surface Preparation

New concrete surfaces should be lightly abrasive blast cleaned, scarified or mechanically abraded to remove laitance and any curing membrane, which may be present. Resultant dust and debris should be removed by sweeping or vacuum cleaning.

Existing concrete surfaces should be high-pressure detergent washed to remove all dirt, oil and grease, heavy oil contamination may require sweating and burning out. Surfaces should now be cleaned by abrasive blasting or scarifying. All dust and resulting debris should be removed by sweeping or vacuum cleaning.

Prior to coating, the concrete should be dry and the moisture content should be checked using a proprietary surface moisture indicator such as an Elcometer 7420 Digital Moisture Meter. When tested in accordance with the manufactures instructions the reading should be classified as 'dry'.

Mixing

The Base should be stirred, and whilst continuing stirring the contents of the Activator container should be added and mixed until completely homogenous. The use of slow speed mechanical mixer is advisable to ensure complete mixing.

To Produce A Fluid 'Self-Leveling' Material

Approximately 1 volume of mixed *UPS 902 SP* should be added to 1 volume of *UPS 705 RS Epoxy Screed*, this is equivalent to 10kgs of *UPS 902 SP* per 25kg pack of *UPS 705 RS*.

To Produce An Economical Fill Material

1 unit *UPS 902 SP* (2.0kg) should be mixed with 30-35kgs of ¼" clean, dry gravel / silica sand mix.

The use of mechanical mixers is advisable when mixing self-leveling or filler mixes.

Application Procedures

The product 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. Application is best carried out when surfaces are above 10°C.

Primer / Sealing

The product is intended for application by brush or roller, and should be applied to give a uniform even thickness to completely seal the surface, avoiding ponding.

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.

Self-Leveling Screed

The *UPS 902 SP / UPS 705 RS* mix should be poured onto the prepared surface and spread out using a saw toothed float. When used as a self-leveling mix of 10kgs of *UPS 902 SP* with 25kg pack of *UPS 705 RS* it will cover 7m² at 3mm.

Filing

The *UPS 902 SP / filler* should be mixed, poured on the area to be repaired then finished with a float or trowel.

All equipment must be cleaned immediately after use with *UPS TAC 883 Universal Cleaner*.

Physical Constraints

Mixing Ratio	Base	Activator
By Volume	2	1
Colour	Clear	
Drying & Cure Times at 20°C (68°F)		
Usable Life	30 minutes	
Touch Dry	2 hours	
Hard Dry	16 hours	
Minimum Over Coating*	2 hours	
Maximum Over Coating	24 hours	
*Note: When used as a tack primer for <i>UPS 705 RS Epoxy Screed</i> this is the maximum over coating time.		
Full Cure	7 days	
Volume Solids	100%	
Specific Gravity (Average Mixed)	1.1	
Film Thickness	Wet/Dry 100 microns	
Note: The actual thickness to be applied will depend on the porosity of the substrate, however the product must be applied to seal the surface and may be higher or lower than the quoted typical value. Detailed system recommendations available on request.		
V.O.C	Nil	
Theoretical Coverage Rate	9.2m ² / kg @ 100 microns dft.	
Shelf Life		
Use within 5 years of manufacture date. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F).		

Physical Properties

Elongation ASTM D 412	34%
Direct Pull Adhesion ASTM D 4541	6 Mpa (900 psi) – Steel 3.5 Mpa (500 psi) – Concrete (Concrete Failure)
Tensile Strength ASTM D 412	33 Mpa (4785 psi)
Scratch Resistance BS 3900 Part E2	No Failure 2.5kg (5.5lbs)
Hardness (Shore D) ASTM D 2240	95

Packaging

UPS 902 SP is supplied in the following;

- 2kg
- 5kg
- 20kg

Health And Safety

As long as normal good practice is observed UPS 902 SP 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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