

PRODUCT DATA SHEET

Sikagard® PU UR (W)

SINGLE COMPONENT, WATERBORNE MODIFIED POLYURETHANE DISPERSION BASED SURFACE COATING WITH A SEMI-GLOSS FINISH

DESCRIPTION

Sikagard® PU UR (W) is a single component, coloured, waterborne modified polyurethane resin based surface coating containing an organic in-film preservative

USES

- Coloured seal coating for internal walls and ceilings
- For concrete, bricks, cement based and gypsum substrates, metallic surfaces, timber, tiles and plastic
- Suitable for clean rooms in the pharmaceutical and medical industry. Also suitable for food and beverage industry, hospitals, healthcare facilities, kitchens, prisons and leisure facilities.
- Maintenance layer on existing coatings

CHARACTERISTICS / ADVANTAGES

- Easy application
- Fast drying, two coats in one working day
- Elastomeric, resists cracking and flaking
- Good resistance to repeated cleaning regimes using mild detergents and cleaning solutions
- Seamless, semi-glossy, easy clean finish
- Good covering and hiding power (opacity)
- Low odour

APPROVALS / STANDARDS

Food grade (USFDA 175.300 1st April 2017) from CFTRI, Mysore

PRODUCT INFORMATION

Chemical Base	Waterborne acrylic/polyurethane co polymer dispersion	
Packaging	4kgx2nos	
Appearance / Colour	White	
Shelf Life	06 months from date of production	
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +30 °C.	
Density	1.3kg/l	
Solid content by weight	57%	
Viscosity	2230 cps	(Brookfield viscometer)

TECHNICAL INFORMATION

Elongation at Break	> 100%	(ISO 527-3)
Tensile Strength	~ 1.5 mpa	(ISO 527-3)

Tensile Adhesion Strength	>1.5 MPa (Concrete)	(According to EN 1542)
Water Vapour Transimission	~ 32 g/m ² / 24h	(ASTM E 96 : 2000)

SYSTEM INFORMATION

System Structure	System	Product
	Priming	Sikagard® PU UR (W) + 10% clean water
	Top coat	Sikagard® PU UR (W)

APPLICATION INFORMATION

Consumption	System	Product	Consumption
	Priming	Sikagard® PU UR (W) + 10% clean water	~0.15-0.20 kg/m ²
	Top coat	Sikagard® PU UR (W)	~0.10-0.12 kg/m ² /coat

DFT ~ 100 – 110 micron (Two coat)

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

Layer Thickness	DFT ~ 100 – 110 micron (Two coat)
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Ambient Air Temperature	+15°C min. / +30°C max.
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Relative Air Humidity	80% max.
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Dew Point	Beware of condensation! The substrate must be at least 3°C above the Dew Point to reduce the risk of condensation, or blooming on the wall finish.
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Substrate Temperature	+15°C min. / +30°C max.
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Substrate Moisture Content	Visible damp free (maximum 18% wood moisture equivalent). No rising moisture according to ASTM (Polyethylene sheet).
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Waiting Time / Overcoating	Substrate temperature	Minimum	Maximum
	+20°C	8 hours	48 hours
	+30°C	6 hours	48 hours

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, laitance, mould, grease, coatings and surface treatments, etc.

Brick work, block work, stone work: Inspect the substrate. Spalling, flaking or damaged areas should be repaired using compatible materials to match surroundings or replaced as necessary. If in doubt apply a test area first..

All surfaces to be coated should be thoroughly cleaned by conventional means. Ensure that surfaces are free from visible dampness and that all dust, loose and friable material is completely removed from all surfaces before application of the product, preferably by brush and/or vacuum

APPLICATION

Prior to application, confirm substrate moisture content, relative humidity and dew Point.

Primer: Sikagard®-PU UR (W) can be diluted with 10% clean water & applied by good quality sponge roller, brush or airless spray.

Top Coat: Sikagard®-PU UR (W) can be applied by quality sponge roller, brush or airless spray.

(for further information please contact Technical Customer Services)

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be removed mechanically or with proprietary paint stripper).

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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