

PRODUCT DATA SHEET

Sikalastic®-833 R ALU

Aluminium finish hybrid polyurea hot spray applied membrane for roof waterproofing

DESCRIPTION

Sikalastic®-833 R ALU is a 2-part, hybrid polyurea, hot spray applied, crack-bridging, roof waterproofing membrane. It contains special aluminium particle pigments which provides a sun-reflective aluminium finish and increased resistance to UV exposure.

USES

Sikalastic®-833 R ALU may only be used by experienced professionals.

Designed for the following waterproofing applications:

- New construction and refurbishment projects
- Balcony and terrace decks underneath a protective layer (i.e. ballast, paving slabs, tiles)
- Waterproofing membrane for concrete, metal, pedestrian decks, stadium seating floor areas
- Solar reflective surfaces
- For exterior use only

CHARACTERISTICS / ADVANTAGES

- Good crack-bridging properties
- Seamless finish or textured when over-sprayed
- Good resistance to UV exposure
- Thickness:~ 2,0–2,4 mm
- Good elasticity and elongation at break
- Good abrasion resistance
- Fast application
- Applied by 2-Component hot spray equipment
- Easily detailed around complex geometries
- Good chemical resistance
- Available in various colours
- Performs in constant temperatures from -30 °C to +100 °C
- Good adhesion to many substrates with the appropriate primers
- Can be applied over existing corrugated metal roofs

PRODUCT INFORMATION

Chemical Base	Hybrid polyurea	
Packaging	Part A (Polyamide)	192 kg drum
	Part B (Isocyanate)	208 kg drum
	Refer to current price list for packaging variations	
Colour	Aluminium (~RAL 9006, ~RAL 9007) Applied colours selected from colour charts will be approximate. For colour matching: Apply colour sample and confirm selected colour under real lighting conditions. When product is exposed to direct sunlight (UV), there may be some discolouration, colour variation and chalking	
Shelf Life	12 months from the date of production	

Storage Conditions

Important: Sikalastic®-833 R ALU is hygroscopic. Protect from moisture. Part B may become cloudy when stored at the lower temperature range. Reheat up to +15 °C before use. Product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.

Density	Part A (Polyamide)	~1,05 g/l	
	Part B (Isocyanate)	~1,14 g/l	
	Values at +20 °C		
Solid Content	~100 %		
Viscosity	Part	Value	(EN ISO 3219)
	Part A	~975 mPa·s	
	Part B	~800 mPa·s	
	Values at +20 °C		
Solid content by weight	~100 %		

TECHNICAL INFORMATION

Shore A Hardness	~90	(EN ISO 868)
Shore D Hardness	~40	(EN ISO 868)
Tensile Strength	~14 MPa	
Elongation at Break	~400 %	
Tear Strength	~69 N/mm	
Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Services for additional information.	
Thermal Resistance	-30 °C / +100 °C	

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 1 : 1 (by volume)		
Product Temperature	Part A (Polyamide)	+70/+75 °C	
	Part B (Isocyanate)	+65/+70 °C	
	Hose	~70 °C	
	Spraying pressure should be between 140 and 170 bar. Spray equipment fine temperature adjustments could be helpful to obtain equal output pressures of the 2 parts. Higher temperatures provide lower viscosity & lower pressure.		
Ambient Air Temperature	+5 °C min. / +40 °C max.		
Relative Air Humidity	≤ 85 % max		
Dew Point	Beware of condensation. The substrate and uncured applied membrane must be at least +3 °C above dew point.		
Substrate Temperature	+5 °C min. / +50 °C max.		
Substrate Moisture Content	≤4 % parts by weight. The following test methods can be used: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene sheet).		
Tack Free Time	~10 minutes		

Waiting Time / Overcoating

Before applying Sikalastic®-833 R ALU on Sikalastic®-833 R ALU allow:

Important: When a textured finish is required, the spraying must be carried out within 5 minutes after application of the main layer.

Substrate Temperature	Minimum waiting time	Maximum waiting time
+10 °C	~10 minutes	4 hours
+20 °C	~10 minutes	3 hours
+30 °C	~10 minutes	2 hours
+45 °C	~10 minutes	1 hour

- Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.
- If the maximum waiting time / overcoating time is exceeded, Sika® Concrete Primer must be applied at consumption rate of 100 g/m² as an adhesion promoter between the layers.
- As an alternative, the membrane surface will need to provide a mechanical bond. This can be achieved by lightly abrading with mechanical abrasive equipment to remove all the surface sheen.
- Select the abrasive grit size and intensity of abrading depending on the condition of the membrane.
- Completely remove all the dust by industrial vacuuming equipment.
- The final prepared surface must not have any sheen residue present.

Applied Product Ready for Use

Rain Resistant: ~15 minutes Time is approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

SYSTEM INFORMATION

System Structure

System

- Sikalastic®-833 R ALU
- Primers:

Substrate	Primer
Cementitious substrates, tiles, stones, ceramic tiles (unglazed)	Sikafloor®-151 lightly broadcasted* with quartz sand 0,3–0,8 mm or Sika® Concrete Primer
Bituminous based membranes	Sikalastic® Metal Primer N
Metal substrates	Sikalastic® Metal Primer N

Other substrates must be tested for their compatibility. If in doubt, apply a test area first. * Do not broadcast in excess.

Consumption

Layer	Product	Consumption
Primer	Depending on the substrate	Refer to individual Product Data Sheet
Base coat/Top Coat	Sikalastic®-833 R ALU	~2,0–2,4 kg/m ²

These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage. The consumption of the waterproofing layer can be increased according to the system expected service life requirements.

Dry film thickness

~2,0–2,4 mm

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.

LIMITATIONS

- Refer to the Sika Method Statement: Sikalastic®-833 R ALU

FURTHER DOCUMENTS

- Sika Method Statement: Sikalastic®-833 R ALU

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.

APPLICATION INSTRUCTIONS

EQUIPMENT

Mixing and spraying

- Drum stirrer
- Air driven or electrical 2-Component heated spray equipment

Contact Sika Technical Services for local equipment suppliers.

SUBSTRATE PREPARATION

Refer to the Sika Method Statement: Sikalastic®-833 R ALU **Suitable substrates** Concrete, bituminous felts and coatings, metal, brick masonry, asbestos cement, ceramic tiles. **General** All contamination such as dust, loose and friable material that could affect final finish or reduce adhesion, must be completely removed from all surfaces before application of the product or subsequent products, preferably by industrial vacuuming equipment.

MIXING

Refer to the Sika Method Statement: Sikalastic®-833 R ALU

APPLICATION

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Important: During application, check layer thickness and curing speed.

Note: If a non-smooth surface is required, Sikalastic®-833 R ALU can be over-sprayed to achieve a textured finish. Refer to the Sika Method Statement: Sikalastic®-833 R ALU

CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C immediately after use. Hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

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

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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Product Data Sheet

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