

PRODUCT DATA SHEET

Sikalastic®-833 R

Polyurea hot spray applied membrane for roof waterproofing

DESCRIPTION

Sikalastic®-833 R is a 2-part, pure polyurea, hot spray applied, crack-bridging, roof waterproofing membrane. It requires an aliphatic top coat when applied to fully exposed roofs.

Suitable for use in hot and tropical climatic conditions.

USES

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

For the following waterproofing applications:

- Exposed roofs on regulated markets according to ETA-005
- Flat and sloping fully exposed roofs to UV, protected by an aliphatic topcoat
- New construction and refurbishment projects
- Balcony and terrace decks underneath a protective layer (i.e. ballast, paving slabs, tiles)
- For exterior use only

CHARACTERISTICS / ADVANTAGES

- Thickness: ~2,0 mm
- Good resistance to ageing
- Good crack-bridging properties
- Colour added on site using coloured paste
- Seamless finish
- Good elasticity and elongation at break
- Fast application
- Applied by 2-Component hot spray equipment
- Easily detailed around complex geometries
- Good chemical resistance
- Available in various colours
- Good adhesion to many substrates with the appropriate primers
- Can be applied over bituminous membranes

APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to European Technical Assessment ETA 19/0636, based on ETAG 005 Part 1 and Part 6 — Liquid applied roof waterproofing kits. Part 1: General. Part 6: Specific stipulations for Kits based on Polyurethane
- European Technical Assessment 19/0636 25/10/ 2019

PRODUCT INFORMATION

Composition	Pure polyurea		
Packaging	Part A (Polyamide) Part B (Isocyanate) Part C (Coloured paste)	21 4 l	55 kg drum 1 kg drum kg (any RAL colour except silver ay)
Colour	der real lighting condition When product is expose colouration, colour varia	from colour chaply colour samplons. d to direct sunligition and chalkin	e and confirm selected colour unght (UV), there may be some dis-
Shelf life	12 months from date of production		
Storage conditions	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) Part B (Isocyanate) Values at +20 °C	1,05 kg/l 1,12 kg/l	(EN ISO 2811-1)
Solid content by mass	~100 % by weight		
Solid content by volume	~100 % by volume		
TECHNICAL INFORMATION			
Shore A hardness	~90		(ISO 868)
Shore D Hardness	~40		(ISO 868)
Tensile strength	~14 MPa		(EN-ISO 527-3)
Tensile strain at break	~400 % (Elongation)		(EN-ISO 527-3)
Tear strength	~69 N/mm		(ISO 34-1 Method B)
Chemical resistance	Resistant to many chemicals. Contact Sika Technical Services for additional information.		



SYSTEM INFORMATION

System structure	System Sikalastic®-833 R Sikalastic®-701 Primers:				
	Substrate	Pri	imer		
	Cementitious substrat			151/-161, lightly broad-	
	stones, ceramic tiles (unglazed) cas or	cast with quartz sand* or		
			Sika® Concrete Primer		
	Bituminous based me		Sikalastic® Metal Primer Sikalastic® Metal Primer		
	Metal substrates	SIK	-, - <u></u> -		
	test area first.				
	Consumption	* e.g. Sikadur®-507, Do not broadcast in excess Consumption			
	Layer	Product		Consumption	
	Primer	Depending on t	ne sub-	Refer to individual	
	Pace cost	strate	D	Product Data Sheet	
	Base coat Top coat**	Sikalastic®-833	ĸ	~2,0 kg/m ² ~0,33 kg/m ²	
	.	Sikalastic®-701			
	required due to surfac	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. **If exposed to UV, the use of the topcoat will extend the lifetime of the membrane. Optional top coats: Sikalastic®-622 UV/-622 E UV. Refer to the individual			
	**If exposed to UV, the membrane.				
	Product Data Sheets.	Kalastic - 622 UV/-0	022 E UV	. Refer to the individual	
Dry film thickness	~2,0 mm	~2,0 mm			
System performance	W3 / S / P4 / S1 – S4 /	W3 / S / P4 / S1 – S4 / TL3 / TH4			
APPLICATION INFORMA	TION				
Mixing ratio		Part A : Part B = 1 : 1 (by volume) Part A : Part B = 1 : 1,03 (by weight)			
Product temperature	Part A (Polyamide)	+7	0 °C		
	Part B (Isocyanate)	+6	5 °C		
	Hose	+6	5 °C		
	Spray equipment fine equal output pressure	Air Pressure of the spraying equipment must be ~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. / +50 °C ma	+5 °C min. / +50 °C max.			
Relative air humidity	≤85 % max	≤85 % max			
Substrate temperature	+5 °C min. / +55 °C ma	+5 °C min. / +55 °C max.			
Dew point		Beware of condensation. The substrate and uncured applied membrane must be at least +3 °C above dew point.			





≤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).

Waiting time to overcoating

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

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

If the maximum waiting time / overcoating time is exceeded, Sika® Concrete Primer must be applied at consumption rate of $100 \, \text{g/m}^2$ 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. Then completely remove all the dust by industrial vacuuming equipment. The final prepared surface must not have any sheen residue present.

Before applying Sikalastic®-701 on Sikalastic®-833 R allow:

Substrate Temperature	Minimum waiting time	Maximum waiting time
+10ºC	~2 hours	~24 hours
+20ºC	~2 hours	~24 hours
+30ºC	~2 hours	~24 hours
+45ºC	~2 hours	~24 hours

If the maximum waiting time / overcoating time is exceeded, provide a mechanical bond as detailed above for Sikalastic®-833 R on Sikalastic®-833 R.

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

Tack free time	~10 minutes	
Drying time	Gel time mixture A+B (20 g) 8–9 seconds at +25 °C 4–6 seconds at +60 °C	
Applied product ready for use	Rain Resistant: ~10 minutes Time is approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.	

BASIS OF PRODUCT DATA

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

FURTHER INFORMATION

Sika Method Statement: Sikalastic®-833 R

IMPORTANT CONSIDERATIONS

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

- For spray application the use of protective health and safety equipment is mandatory.
- Sikalastic®-833 R must be applied by 2- Component hot spray high pressure equipment.
- Under UV and weathering discolouration and colour variation will occur.

- Product must only be applied in accordance with their intended use.
- Do not apply on substrates with rising moisture or are unstable.
- On substrates likely to exhibit outgassing, apply during falling ambient and substrate temperature. If applied during rising temperatures "pin holing" may occur from rising vapour. Sikalastic® Primer may assist with reducing or eliminating this effect.
- Do not use Sikalastic®-833 R for indoor applications.
- Do not apply near to running air intakes of air conditioning units. Switch off units and seal intakes before applying.
- Ensure bituminous substrates are primed otherwise discolouration will occur.



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ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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 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

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.

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

CLEANING OF EQUIPMENT

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

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LOCAL RESTRICTIONS

LEGAL NOTES

Note that as a result of specific local regulations the

may vary from country to country. Consult the local

Product Data Sheet for exact product data and uses.

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 recommenda-

tions. In practice, the differences in materials, sub-

strates and actual site conditions are such that no war-

ranty 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

user of the product must test the product's suitability

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

Data Sheet for the product concerned, copies of which

refer to the most recent issue of the local Product

will be supplied on request.

from this information, or from any written recommendations, or from any other advice offered. The

for the intended application and purpose. Sika re-

serves the right to change the properties of its

declared data and recommended uses for this product

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ISO 9001: Sika Saudi Arabia Co. Ltd ISO 14001: Sika Saudi Arabia Co. Ltd

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