

PRODUCT DATA SHEET

Sikalastic®-853 R AP

Hybrid polyurea hot spray applied membrane for roof waterproofing

DESCRIPTION

Sikalastic®-853 R AP is a 2-part, hybrid polyurea, hot spray applied, crack-bridging, roof waterproofing membrane. It requires an aliphatic top coat when applied to fully exposed roofs.

USES

Sikalastic®-853 R AP may only be used by experienced professionals.

Designed for the following waterproofing applications:

- 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)
- Waterproofing membrane for concrete, metal, pedestrian decks, stadium seating floor application
- For exterior use only

CHARACTERISTICS / ADVANTAGES

- Fast curing, 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
- Good adhesion to many substrates with the appropriate primers
- Thickness: ~1.5–2.0 mm

APPROVALS / STANDARDS

 Sikalastic®-853 R AP is in conformance with JIS A 6021

PRODUCT INFORMATION

Composition	Polyurethane/Polyurea Hybrid		
Packaging	Part A (Isocyanate)	200 kg drum	
	Part B (Polyol mix)	175 kg drum	
	Part C (Sika® Toner PU)	15 kg container	
Colour	Part A	~Clear / brownish	
	Part B	~Amber	
	Part C	Grey No.12 (~RAL 7011)	
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.		

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Density	Part A	1.0 kg/l		
	Part B	1.0 kg/l		
	Part C	1.25 kg/l		
	Mixed resin	1.01 kg/l		
	Values at +23 °C			
Solid Content	> 99 %			
TECHNICAL INFORMATION				
Shore A Hardness	~79 (7 days / +23 °C)		(JIS K6253)	
Tensile Strength	~10 N/mm² (7 days / +23 °C)		(JIS A6021)	
Elongation at Break	~510 % (7 days / +23 °C)		(JIS A6021)	
	Elastic properties are maintained at temperatures down to -20 °C			
Tear Strength	~58 N/mm (7 days / +23 °C) (JIS A6021			
Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Services for additional information.			
Artificial Ageing	Limited resistance to UV-induced degradation			
SYSTEM INFORMATION				
System Structure	Sikalastic®-853 R AP roof waterproofing systems Note: Sikalastic®-853 R AP can be applied in different roof system build upstor concrete, metal or asphalt substrates. Contact Contact Sika Technical Services for additional information. Layer Product Consumption			
	1. Primer	Depending on the sub- strate (Concrete, Metal Asphalt)	Refer to individual	
	2. Base Coat	Sikalastic®-853 R AP (coloured)	~2.00 kg/m²	
	3. Top Coat	Sikalastic® ExcelTop High Reflection	~0.2 kg/m²	
		Sikalastic® U-Coating (concrete substrates)	~0.2 kg/m²	
	These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage, etc. Primers			
	Substrate	Primer		
	Concrete		rete Primer or Sika® -F or Sikafloor® -161 HC	
	Metal	Sikalastic®	Sikalastic® Metal Primer or Sika® Primer PW-F	
	Asphalt		Metal Primer or Sika®	
Dry Film Thickness	~1.5–2.0 mm depending on the system			
APPLICATION INFORMATION	N			
Mixing Ratio	Part A : Part B = 50 : 50 (by volume)			
	Important: Make spray equipment fine temperature adjustments to obtain			

Part A : Part B = 50 : 50 (by volume)		
Important: Make spray equipment fine temperature adjustments to obtain equal output pressures of the 2 parts. Note: Higher temperatures provide lower viscosity and lower pressure.		
Part A (Isocyanate)	~65 °C	
Part B (Polyol mix)	~60 °C	
	Important: Make spray equipment fi equal output pressures of the 2 part: Note: Higher temperatures provide I Part A (Isocyanate)	





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.

+45 °C

FURTHER INFORMATION

Refer to the Sika Method Statement: Sikalastic®-853 R AP

IMPORTANT CONSIDERATIONS

Installation work must only be carried out by Sika® trained and approved contractors, experienced in this type of application.

Refer to the Sika Method Statement: Sikalastic®-853 R AP.

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) con-

taining physical, ecological, toxicological and other safety-related data.

~20 minutes

APPLICATION INSTRUCTIONS

EQUIPMENT

tions particularly temperature and relative humidity.

Refer to the Sika Method Statement: Sikalastic®-853 R AP.

SUBSTRATE PREPARATION

~5 minutes

Foot traffic applies only for inspection or application of next layer Times are approximate and will be affected by changing ambient condi-

The supporting structure must be of sufficient structural strength to apply all new and existing layers of the roof build-up. Complete roof system must be designed and secured against wind uplift loadings. Refer to the Sika Method Statement: Sikalastic®-853 R AP.

MIXING

Refer to the Sika Method Statement: Sikalastic®-853 R AP.

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®-853 R AP.

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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