

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

Chemical Base	Polyurethane / Polyurea Hybrid	
Packaging	Part A (Resin)	200 kg drum
	Part B (Hardener)	175 kg drum
	Part C (Sika® Toner PU)	15 kg container
	Refer to current price list for packaging variations	
Colour	Part A	~Amber
	Part B	~Clear / brownish
	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.	

Ambient Air Temperature	+5 °C min. / +35 °C max.																	
Relative Air Humidity	85 % max.																	
Substrate Temperature	+5 °C min. / +35 °C max.																	
Dew Point	Beware of condensation. The substrate and uncured applied membrane must be at least +3 °C above dew point.																	
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).																	
Waiting Time / Overcoating	Important: If the maximum waiting time is exceeded then Sika® Sokan Primer-J must be applied as a bonding bridge. Before applying Sikalastic® U-Coating or ExcelTop High Reflection on Sikalastic®-853 R AP allow: <table><tr><th>Substrate temperature</th><th>Minimum</th><th>Maximum*</th></tr><tr><td>+10 °C</td><td>~90 minutes</td><td>~3 hours</td></tr><tr><td>+20 °C</td><td>~60 minutes</td><td>~2 hours</td></tr><tr><td>+30 °C</td><td>~30 minutes</td><td>~2 hours</td></tr><tr><td>+45 °C</td><td>~20 minutes</td><td>~1 hours</td></tr></table> Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.			Substrate temperature	Minimum	Maximum*	+10 °C	~90 minutes	~3 hours	+20 °C	~60 minutes	~2 hours	+30 °C	~30 minutes	~2 hours	+45 °C	~20 minutes	~1 hours
Substrate temperature	Minimum	Maximum*																
+10 °C	~90 minutes	~3 hours																
+20 °C	~60 minutes	~2 hours																
+30 °C	~30 minutes	~2 hours																
+45 °C	~20 minutes	~1 hours																
Drying Time	Cup Gel Test: Gel time (+25 °C) starts after ~20 seconds.																	
Applied Product Ready for Use	<table><tr><th>Temperature</th></tr><tr><td>+10 °C</td></tr><tr><td>+20 °C</td></tr><tr><td>+30 °C</td></tr><tr><td>+45 °C</td></tr></table>	Temperature	+10 °C	+20 °C	+30 °C	+45 °C	<table><tr><th>Rain Resistant</th></tr><tr><td>~5 minutes</td></tr><tr><td>~5 minutes</td></tr><tr><td>~5 minutes</td></tr><tr><td>~5 minutes</td></tr></table>	Rain Resistant	~5 minutes	~5 minutes	~5 minutes	~5 minutes	<table><tr><th>Foot Traffic</th></tr><tr><td>~90 minutes</td></tr><tr><td>~60 minutes</td></tr><tr><td>~30 minutes</td></tr><tr><td>~20 minutes</td></tr></table>	Foot Traffic	~90 minutes	~60 minutes	~30 minutes	~20 minutes
Temperature																		
+10 °C																		
+20 °C																		
+30 °C																		
+45 °C																		
Rain Resistant																		
~5 minutes																		
~5 minutes																		
~5 minutes																		
~5 minutes																		
Foot Traffic																		
~90 minutes																		
~60 minutes																		
~30 minutes																		
~20 minutes																		
Foot traffic applies only for inspection or application of next layer Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.																		

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.

FURTHER DOCUMENTS

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

LIMITATIONS

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) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

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

SUBSTRATE PREPARATION

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.

Sika (Singapore) Pte Ltd.

28 Tuas South Ave 8

Singapore 637648

Phone: +65 6861 0632

Fax: +65 6862 3915

Email: sales@sg.sika.com

www.sika.com.sg



Product Data Sheet

Sikalastic®-853 R AP

February 2021, Version 01.01

020915601000000019

Sikalastic-853RAP-en-SG-(02-2021)-1-1.pdf