Sika® Raingard
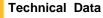
Flexible, liquid applied, single component acrylic based ready to use waterproofing membrane system

Product Description	Sika® Raingard is a flexible, liquid applied, single component, ultra violet rays and weather resistant, acrylic waterproofing membrane for all types of exposed roof slabs(new and old),terraces(sloped and flat),etc. When combined with Sika® Fab 1 glass fiber mesh gives a highly durable waterproofing membrane system
Uses	Exposed roof waterproofing Impervious coating on roofs (flat and sloped) and concrete structures As protective coating in infrastructure projects On non-trafficked areas Excellent adhesion to concrete, brickwork, corrugated asbestos, and asbestos cement sheet.
Characteristics / Advantages	Crack-bridging Flexible Water vapour permeable Simple application (even at detailing) Economical Bonds well to all types of masonry substrate High diffusion resistance against CO_2 Ultra violet rays and weather resistant Algae and fungi resistant

Product Data

Form

Appearance /Colours	Sika® Raingard: White/Grey

Packaging	Sika® Raingard:4.5kg, 18kg and 200kg

Storage

Storage Conditions/ **Shelf-Life**	Best before 12 months if stored properly in undamaged and unopened original sealed packaging in dry and cool conditions at +5°C-30°C Liquid component must be protected from frost.

Technical Data

Construction

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Chemical Base	Acrylic polymer dispersion
Density	Sika® Raingard:~1.400 kg/l at 27º C
Layer Thickness	With Sika® Fab-1 ~1.2 mm
Service Temperature	+5 ºC to +45ºC

Mechanical / Physical Properties

Bond Strength	1.5 N/mm^2	(According to ISO 4624)
Crack bridging properties	2 mm	(According to ASTM C 1305 - 06)
Moisture permeability	Passes	(According to IS101)
Crack resistance	Passes 3 mm mandrel	(According to IS101)
Salt spray resistance	Satisfactory	
Workable time	15 minutes at +27º C	
Tack free time	25 minutes at +27º C	
Water permeability	Passes	(According to IS 2645)
Accelerated weathering, 500 hours	No cracking / no blister	(According to IS 101)
Solid Content	62 %	
Polymer Content	34%	

System Information

System Structure	Layer thickness:	1.2 mm
		1 x Sika® Raingard (diluted with 20
	Primer:	water)
	First Coat:	1 x Sika® Raingard
	Fabric reinforcement :	1 x Sika® Fab 1
	Second Coat:	1x Sika® Raingard
	Top Coat:	1x Sika® Raingard

Application Details

Consumption / Dosage	Sika® Raingard Primer : 0.200 kg/m^2 per coat depending on the substrate
	Sika® Raingard: 0.5 kg /m^2 per coat (2-3 coats recommended)
	Total thickness – 1.2 mm approx with Sika® Fab1 and 1mm without Sika® Fab1
Substrate Quality	The cementitious substrate should be sound and of sufficient strength (min. 25 N/mm²). Minimum pull-off strength 1.5 N/mm², it should be free from grease, oil and contamination.
Substrate Preparation	All dust, loose and friable materials and glaze or varnish of tiles must be completely removed by mechanical means. Existing coatings have to be inspected, cleaned and mechanically ground to achieve a sound, gripping substrate. In case of bad adhesion to the substrate, existing coatings have to be removed. The uneven surface should be properly treated by suitable Sika® material to get a plain surface.

Application Conditions / Limitations

Substrate Temperature	+10°C min / +40°C max
Ambient Temperature	+10°C min / +40°C max

Application Instructions

Priming	Prime the prepared substrate with Sika® Raingard Primer by brush or roller.

Application Method / Tools	Sika® Raingard is supplied in a single component pack and is in ready to use form. Stir thoroughly before application. Within 45 minutes of priming apply 1st coat of Sika® Raingard by brush or roller. Do not spoil the dry surface while walking on it for application. Place Sika® Fab1 over the first coat when it is in tacky condition Apply the 2nd and 3rd coat of Sika® Raingard following the same above procedure at suitable time interval of 24 hours between the two coats
Important Recommendation	The product can be stained with good quality stainer for light shades. However, pre-test for consistency of colour shade is recommended through site trials before application.
Cleaning of Tools	Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be removed mechanically.
Waiting Time / Overcoating	*Waiting time between coats*

+30°C	24 hours

Value Base	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.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet 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.