

Sika-Trocal®

PRODUCT DATA SHEET Sikalastic[®] Rapid-721 Thixo

TWO COMPONENT, FAST-REACTIVE, HIGHLY FLEXIBLE PMMA BASED WATERPROOFING RESIN FOR USE ON DETAILS

PRODUCT DESCRIPTION

Sikalastic[®] Rapid-721 Thixo is a seamless, crackbridging and joint-bridging waterproofing membrane that is able to withstand mechanical stresses. It contains a highly flexible and fleece-reinforced waterproofing layer as well as abrasion-resistant system layers for foot traffic. The waterproofing system's liquid application and high bonding strength on almost any substrate also allow breakthroughs and upstands to be integrated securely and seamlessly.

USES

- Water-proofing of communal walkways, flat roof structures, podium decks and terrace roofs
- For new construction and refurbishment projects
- Applicable to existing concrete, asphalt, roofing felt, brickwork (subject to condition and priming requirements)

CHARACTERISTICS / ADVANTAGES

- Cold applied
- Fast-curing
- Highly flexible and crack--bridging even at extreme sub-zero temperatures
- Permanently weather--resistant (UV, hydrolysis and alkali resistant)
- Fully bonded to the substrate, therefore no flow paths for water under the membrane
- Easy and fast application
- Can also be applied at sub-zero temperatures
- Solvent-free
- Seamless membrane
- Minimal disruption and low maintenance
- Elastic properties tolerant of thermal movement
- Flexible, impact resistant membrane

APPROVALS / STANDARDS

- BBA Accreditation (Cert No: 16/5925)
- External fire performance: BRoof (t4) in accordance with BS EN 13501-5:2005

PRODUCT INFORMATION

Chemical Base	Two-component Polymethylmet	Two-component Polymethylmethacrylate (PMMA) Resin and catalyst		
Packaging	Sikalastic [®] Rapid-721 Thixo	10 Kg		
	Sikalastic [®] Rapid Catalyst	0.2 Kg		
	Total	10.20 Kg		
Colour	Pigmented liquid RAL 7043 (Dark Grey)			
Shelf Life	6 months			
Storage Conditions	Store products sealed in their original airtight container and in a cool, dry and frost-free place. Direct sunlight on the containers should be avoided, including on site. After removing some of the contents, reseal the contain- ers so they are airtight. Reference should also be made to the storage recommendations of the material safety datasheet.			

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SYSTEM INFORMATION

System Structure

Communal Walkways - Durability dependent on condition of the substrate Sikalastic Rapid Trafficable (Wearing system)

strate Sikalastic Kapiu	manificable (wearing syste	
Preparation	Prior to priming all sub- strates must be clean dry and sound free from any oxidisation, mould and any other deleterious materials. For further information please contact technic- al services	
Waterproofing Layer (Upstands)	Sikalastic [®] Rapid-721 Thixo (Wet on wet ap-	2.5kg/m ²
()	plication)	
	Sikalastic [®] Rapid Fleece 110 (0.26m width)	
Protective Layer	Sikalastic [®] -Rapid Level-	4.0kg/m ²
Toteetive Layer	ling Mortar	4.000/111
Wearing Layer	Sikalastic [®] -Rapid Ag-	3.0kg/m ²
	gregate	0.6kg/m²
	Sikalastic [®] -Rapid Pig- mented Sealer	

Communal Walkways - Durability dependent on condition of the substrate Sikalastic Rapid Trafficable (Waterproofing & wearing system)

Preparation	Prior to priming all sub- strates must be clean dry and sound free from any oxidisation, mould and any other deleterious materials. For further information please contact technic- al services	
Waterproofing Layer (Upstands)	Sikalastic [®] Rapid-721 Thixo (Wet on wet ap- plication) Sikalastic [®] Rapid Fleece 110 (0.26m width)	2.5kg/m ²
Waterproofing Layer (Field Areas)	Sikalastic [®] Rapid -721 (Wet on wet applica- tion) Sikalastic [®] Rapid Fleece 110 (1.05m width)	2.5kg/m ²
Protective Layer	Sikalastic [®] -Rapid Level- ling Mortar	4.0kg/m ²
Wearing Layer	Sikalastic®-Rapid Ag- gregate Sikalastic®-Rapid Pig- mented Sealer	3.0kg/m ² 0.6kg/m ²



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Communal Walkways - Durability dependent on condition of the sub-
strate Sikalastic Rapid Trafficable (Buried system)

strate Sikalastic Rapid	Trafficable (Buried system	ı)
Preparation	Prior to priming all sub- strates must be clean dry and sound free from any oxidisation, mould and any other deleterious materials. For further information please contact technic-	
	al services	
Waterproofing Layer (Upstands)	Sikalastic [®] Rapid-721 Thixo (Wet on wet ap- plication) Sikalastic [®] Rapid Fleece 110 (0.26m width)	2.5kg/m ²
Waterproofing Layer (Field Areas)	Sikalastic [®] Rapid -721 (Wet on wet applica- tion) Sikalastic [®] Rapid Fleece 110 (1.05m width)	2.5kg/m ²
Protective Layer	Sikalastic [®] Rapid -721	0.6kg/m ²
	Sikalastic [®] -Rapid Ag- gregate	3.0kg/m ²
Wearing Layer	Tiles or Pavers	
Waterproofing for Roo	fs (infrequently trafficked)
Preparation	Prior to priming all sub- strates must be clean dry and sound free from any oxidisation, mould and any other deleterious materials. For further information please contact technic- al services	
Waterproofing Layer (Upstands)	Sikalastic [®] Rapid-721 Thixo (Wet on wet ap- plication) Sikalastic [®] Rapid Fleece <u>110 (0.26m width)</u>	2.5kg/m ²
Waterproofing Layer (Field Areas)	Sikalastic [®] Rapid -721 (Wet on wet applica- tion) Sikalastic [®] Rapid Fleece <u>110</u> (1.05m width)	2.5kg/m²

APPLICATION INFORMATION

-5 °C min. / +35 °C max.		
The relative humidity must be ≤90% +3 °C min. / +50 °C max.		
		are of condensation. Surface temperature during application and cure t be a minimum of 3°C above dew point. substrate temperature must not be less than +3°C if a topping is ap- l to the surface. Reaction problems can occur at lower temperatures.
Content The surface to be coated must be dry and ice-free The surface must be protected from moisture until the coating has hardened		

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Substrate Pre-Treatment	Substrate Prin Substrate	8	Prim	er	
	Cementitious	Substrates		astic [®] Rapid Cer	nentitious
	Brick and Ston	ie	Sikala Prim	astic [®] Rapid Cer er	nentitious
	Tiles		Prim	astic [®] Rapid Cer er - Adhesion te	st required
	Aphalt			astic [®] Rapid Asp	halt Primer
	Bituminous Fe	elt		required	
	Single Ply		pend Sika Limit	esion to single p ling on type, age ed for further a equirements.	e, etc. Consult
	Bituminous Co	oatings		astic [®] Rapid Asp	halt Primer
	Metals		Sikala	astic [®] Metal Priner 204N	
	Timber Substr	ates	layer Mem of ex use S Prim (expo	er based roof d of appropriate brane. For sma posed timber (i. iikalastic® Rapid er, osed timber sho o BS 1088 or equ	Sika Carrier II areas .e. upstands) I Cementitious uld be Marine
	Paints			ys remove coat	
	Polurethane C	Coating		required	
Pot Life	The material in opened containers should be applied immediately At 20°C, 2% catalyst the pot life is approximately 15 minutes				
Applied Product Ready for Use	Temperature	Catalyst	Rain resistant	Can be trafficked/ overcoated	Full cure
	20°C	2%	30 minutes	1 hour	3 hours
	conditions. Higher temper reduce reactic of Catalyst wil	ratures or gro on times, whi I increase rea	le lower temper action times.	is of Sikalastic R atures and sma	apid Catalyst wil ller proportions
	Catalyst requir	red to adjust 1perature in '	es the recomme the curing react °C; required am e	ion to the temp	
	+3	5	10	15	20
	4%	4%	4%	2%	2%
		30	35	40	50
	25				_
	25 2%	2%	2% 2% e provided as a g	1%	1%

newly laid areas.

For further advice, consult Sika Roofing Technical Services.

APPLICATION INSTRUCTIONS

Substrate preparation is crucial to ensure durability. Please refer to the Sikalastic Rapid Method Statement or Sika Limited specification for more information.

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SUBSTRATE PREPARATION

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MIXING

Use a twin-paddle stirrer to mix the product First stir the tub contents thoroughly.

Then add the Sikalastic[®] Rapid Catalyst while stirring the resin at the slow speed setting and mix for 2 minutes. Make sure that the product on the base and sides of the container is mixed in. At product temperatures <10°C the product should be stirred for 5 minutes, as the catalyst will take longer to dissolve.

APPLICATION

Apply Sikalastic[®] Rapid -721 & Sikalastic[®] Rapid-721 Thixo using a sheepskinroller or brush for areas that are not accessible with a roller.

Sikalastic[®] Rapid -721 is applied together with Sikalastic[®] Rapid Fleece 110 reinforcement for waterproofing large areas and details on roofs as well as for waterproofing water-impermeable concrete joints. Sikalastic[®] Rapid-721 Thixo is a variant of Sikalastic[®]

Rapid -721 that is made

more viscous / thixotropic to reduce run-off when applied to sloping and vertical surfaces.

Use Sikalastic[®] Rapid -721 for waterproofing horizontal areas. Sikalastic[®] Rapid-721 Thixo is used for vertical surfaces (e.g. upstands on details)..

Refer to Sikalastic $\ensuremath{^{\textcircled{\tiny B}}}$ Rapid Method Statement for more information

CLEANING OF TOOLS

If work is interrupted or when it is completed, clean the tools thoroughly with Sikalastic[®] Rapid Cleaner within the pot life of the material (approx. 10 minutes). This can be done with a brush. Do not use the tools again until the cleaner has evaporated fully. Simply immersing the tools in the Cleaner will not prevent the material hardening.

LIMITATIONS

Substrate preparation is crucial to ensure durability. Please follow the instructions in the technical datasheet of the corresponding Primer and pretreatment.

Applications of Sikalastic[®] Rapid-721 Thixo in confined spaces must be undertaken in accordance with material safety datasheet recommendations.

Do not apply close to the air intake vents of running air conditioning units until either switched off or isolated as vapour may be drawn into the building.

All areas requiring anticorrosive protection must be installed over an appropriate metal primer that has been applied directly to bright metal.

All joints; areas subject to differential movement; guttering and drainagechannels; and repairs; must be treated with local reinforcement.

Adhesion suitability must be verified practically on site prior to commencing contract. Refer to Sika Limited's recommendations and this Technical Data Sheet for installation guidance.

This document provides the most up to date information at the time of print, but is subject to change without notice and should not be used in isolation for pricing purposes. Please refer to Sika Limited for

Product Data Sheet Sikalastic® Rapid-721 Thixo March 2018, Version 01.01 02091540200000006 project specific information and the latest advice.

VALUE BASE

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, please refer to the most recent Safety Datasheet.

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.



TECHNICAL ENQUIRIES

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