BUILDING TRUST CONSTRUIRE LA CONFIANCE



PRODUCT DATA SHEET

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Sikalastic[®] Resoflex

ELASTOMERIC AND UV RESISTANT, POLYURETHANE-BASED BALCONY AND WALKWAY WATERPROOFING SYSTEM

Description	A unique coating system specifically engineered to protect reinforced concrete structures subject to light to moderate traffic. It consists of a crack-bridging, waterproof, two-component, high solids, polyurethane coating containing factory added, synthetic aggregates.				
Where to Use	As a deck coating to waterproof and protect concrete structures such as: • Stadiums and arenas. • Balconies and terraces. • Footbridges and stairways.				
Advantages	 Cost-effective and easy to apply. Long pot life for extended application time. Waterproof and weather resistant. Elastomeric and crack bridging. Outstanding UV resistance and non-yellowing. Abrasion resistant. Synthetic aggregates are coloured to match the coating and are added in the factory. The synthetic aggregates rise to the surface of the coating to create a comfortable, slip-resistant, easy to walk on surface 				
	Technical Data				
	Packaging	5.67 L (1.5 US gal.) unit			
	Colour	RAL 7004 Signal Grey, RAL 7046 Telegrey 2 and RAL 1001 Beige			
	Yield	1.4 m²/L – 7.9 m²/unit (57 ft²/US gal. – 86 ft²/unit.), 28 mils w.f.t. / 24 mils d.f.t.			
		Typically one (1) coat is required, though on higher absorbency substrates additional coats may be require Actual coverage rates and material consumption will depend upon porosity and profile of the substrate. To areas are recommended to establish correct coverage rates.			
	Shelf Life	12 months in original container under proper storage conditions. Store dry at temperatures between 5 a 32 °C (41 -and89 °F). Condition product to temperatures between 18 and 30 °C (65 -and86 °F) before us			
	Mix Ratio	A:B= 5:1 by volume			
	Properties at 23 °C (73 °F) and 50 Solids Content By volume By weight Pot Life, 250 g (8.8 oz) Curing Time Tack-free Full cure Drying times will vary according to air and substra Tensile Resistance ASTM D638, Type IV Elongation at Break ASTM D638, Type IV Tear strength ASTM D624 Die C Abrasion Resistance ASTM D4060 Taber Abraser, CS-17 and H-22 Wheels/ 1000 g (2.2 lb)/1000 cycles * Standard 28 MPa concrete exhibits 3.872 Bond Strength ASTM D4541 On primed concrete	Approx. 85 % Approx. 88 % Approx. 75 minutes 16 hours 16 hours, If still tacky, wash with water			
	Water Wapour Transmission and Permean Water method Static Coefficient of Friction ASTM C1028				
	Dry surface Wet surface VOC Content	0.82 0.65 143 g/L			
	Chemical Resistance	Consult Sika Canada			
	Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environmen preparation, application, curing and test methods.				

HOW TO USE						
Surface Preparation	General: Surfaces must be clean, dry and sound, with a suitable surface profile. Remove all dust, laitance, grease, oils tar, asphalt and bitumen, curing compounds, bond inhibiting impregnations, waxes, and any other contaminants. Al projections, rough spots, etc. should be ground off to achieve a level surface prior to applying the system.					
	Concrete: Should be cleaned and prepared to achieve a laitance and contaminant free, open surface profile by blas cleaning or equivalent mechanical means, to achieve a profile equivalent to ICRI / CSP 2 - 3. Surface defects should b repaired with an appropriate Sika [®] repair material before beginning Primer installation.					
	Plywood: Should be clean a smooth, of an APA and exterior grade, not less than 13 mm (1/2 in) thick, and spaced and supported in accordance with APA guidelines. Seams should be sealed with Sikaflex®-2c or Sikaflex®-1a and may require embedded fabric reinforcement.					
Priming	Concrete and Plywood: Use either Sika® MT Primer or Sikalastic®-120 FS Primer at all times. (see separate Product Data Sheets). Prior to application, measure and confirm substrate moisture content, ambient relative humidity, ambient and surface temperature and dew point. Confirm that a moisture vapour transmission does not exist prior to beginning the installation. During installation, confirm and record above values at least once every three (3) hours, or more frequently whenever conditions change (e.g. ambient temperature rise/fall, relative humidity increase/decrease, etc.).					
	wet film thickness. When using the same techniqu	e a second coat is required, v ie and at the same coverage	vait until first coat is tack-free and	oll to ensure a uniform 8 - 10 mils apply a second coat of the primer the second application is free of rete substrate.		
Mixing	Pre-mix each component of Sika [®] Resoflex separately. Empty component B into the component A pail. Mix the combined components for at least three (3) minutes, using a low-speed drill (300 - 450 rpm) to minimize entrapping air. Use an <i>Exomixer</i> [®] type mixing paddle (recommended model) suited to the volume of the mixing container. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once, to ensure complete mixing. When completely mixed, the material should be uniform in colour and consistency.					
Application	Apply to primed surface with with notched squeegee at a rate of 1.4 m ² /L (57 ft ² /US gallon) and backroll with a 12 mm (½ in) nap roller to achieve 27 mils wet film thickness. A 450 mm (18 in) wide roller provides the best results.					
Clean Un	to provide a slip-resistant texture.					
Clean Up	Clean all tools and equipment immediately with Sika [®] Urethane Thinner and Cleaner. Once cured, product can only be removed manually or mechanically. Wash hands and skin thoroughly with hot soapy water or use Sika [®] Hand Cleaner towel					
Limitations	 Minimum/maximum ambient and substrate temperature (during application and cure): 5 / 32 °C (41 / 90 °F). Monitoring of ambient and substrate temperature should always be done when applying polyurethane coatings. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it. Substrate temperature must be at least 3 °C (5.5 °F) above measured dew point temperature. Moisture content of the substrate must be < 4 % by weight when coating is applied or use Sikafloor®-81 EpoCem®CA. Do not apply to a porous or damp surface where moisture vapour transmission will occur during application and cure Minimum age of concrete must be 21 - 28 days, depending on curing and drying conditions. Substrate must be dry prior to application. Do not apply to frosted, wet or damp surfaces. Do not proceed if rain is imminent within 8 - 12 hours of application. Allow sufficient time for substrate to dry after rain or inclement weathe to avoid potential for bonding problems. Repairs required to achieve a level surface must be carried out prior to application (consult Sika Canada for materia recommendations). Surface irregularities may reflect through the cured system. When applying over existing coatings, compatibility and adhesion testing is recommended. Do not store materials outdoors or exposed to sunlight for prolonged periods. 					
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.					
	KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY					
	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, within their shelflife. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca					
	Head Office 601, avenue Delmar Pointe-Claire, Quebec H9R 4A9	Other locations Toronto Edmonton Vancouver	1-800-933-SIKA www.sika.ca	Certified ISO 9001 (CERT-0102780) Certified ISO 14001 (CERT-0102791)		



