

Decothane Top Coat

Highly durable, UV-stable, versatile and easily applied liquid
Roof Waterproofing Top coat

Product Description

Sika Liquid Plastics' Decothane Top Coat is a high performance polyurethane coating used as a top coat for the Omega 15, Gamma 20 and Delta 25 waterproofing systems.

Uses

- Top Coat for Sika Liquid Plastics waterproofing systems including Omega 15, Gamma 20 and Delta 25
- For insulated and non-insulated roof designs
- For new construction and refurbishment projects

Characteristics / Advantages

- Totally seamless, single pack liquid applied membrane
- Cold applied – eliminating the risk of fire during installation
- High solids, VOC compliant to 2004/42/CE
- BBA certified system
- Highest fire ratings once installed (BROOF (t4))
- Fast curing, develops early rain resistance
- Excellent adhesion to most conventional substrates*
- Easy and quick application – Deco Applicator available
- Minimal disruption and low maintenance
- Elastic properties – tolerant of thermal movement
- Vapour permeable
- Flexible, impact resistant membrane
- Can be applied all year round above 2°C
- Approved to ETAg 005 (Part 6)
- Product Guarantee and Final Inspection Certificate available if installed by a Sika Liquid Plastics Quality Assured Contractor

*please refer to Substrate Preparation for further information

Tests

Approvals / Standards

- British Board of Agrément (BBA) certified No. 92/2803 and No. 14/5147
- European Technical Approval Tested in accordance with ETAg 005 (ETA Cert no.07/0004)
- External fire performance: BROOF (t4) & classification under BS 476-3: 1958 EXT.F.AA.
- Energy Star

Product Data

Form

Appearance

Pigmented liquid
White, Dove Grey, Shale Grey and Slate Grey

Packaging

15 litres

Storage Conditions / Shelf Life

Store in original, unopened and undamaged sealed packaging in dry conditions at temperatures >0°C and < 25°C. Protect from frost.

A shelf-life of 9 months is achieved when stored in accordance with the above recommendations at a temperature of 20°C. Exposure to higher temperatures will reduce the shelf-life.

Reference should also be made to the storage recommendations of the material safety datasheet.

Roofing



Chemical Base	One-component moisture-triggered Polyurethane	
Density	1.44 kg/L (+23 °C)	(EN ISO 2811-1)
Solid Content	~ 81.3 % by volume / ~ 87.4 % by weight	
Flash Point	+ 62°C	
Service Temperature	-30 to +80°C (intermittent)	

Resistance

Chemical Resistance Strong resistance to a wide range of reagents including paraffin, petrol, fuel oil, white spirit, acid rain, detergents and moderate solutions of acids and alkalis. Some low molecular weight alcohols can soften the material. Contact Technical Customer Services for specific recommendations.

Salt spray to ASTM B117 (1000 hours continuous exposure) and cohesion testing to ASTM G85- 94; Annex A5 (1000 hours cyclic exposure).

System Information

Maximum Coverage Rates

Waterproofing Only

Omega 15

Preparatory Layer	Substrate must be prepared according to specification – for further information please contact technical customer services	
Embedment Layer	Decothane Base Coat	1.0 L/m ²
	Sika Reemat Premium	
Top Coat	Decothane Top Coat	0.75 L/m ²

Gamma 20

Preparatory Layer	Substrate must be prepared according to specification – for further information please contact technical customer services	
Embedment Layer	Decothane Base Coat	1.0 L/m ²
	Sika Reemat Premium	
Top Coat	Decothane Top Coat	1.0 L/m ²

Delta 25

Preparatory Layer	Substrate must be prepared according to specification – for further information please contact technical customer services	
Embedment Layer	Decothane Base Coat	1.0 L/m ²
	Sika Reemat Premium	
Top Coat	Decothane Top Coat	0.75 L/m ²
Top Coat	Decothane Top Coat	1.0 L/m ²

Roofing



Note: The application of the system must be approached as one operation. Always plan for reasonable progress of each coat. Work only so far in advance that the existing surface can be overcoated as the next operation. Finish the coating system completely before progressing to the next area. The ideal time between coats is within 48 hours.

It is not good practice to plan breaks between coats of more than 7 days. For periods longer than this and less than 14 days the surface must be reactivated with Sika Reactivation Primer. Periods between coats longer than 14 days may affect the normal life term of the system –If this happens consult Sika Liquid Plastics for advice. Ensure each application/coat is clean and dry prior to overcoating

At no stage should the Sika Liquid Plastics system or waterproof coating in its finished or intermediate stage be used as a workspace or access floor without adequate protection.

Please note: the above rates are for smooth substrates only.

Typical Test Data - System

	Omega 15	Gamma 20	Delta 25
Dry Film Thickness (mm)	1.5	1.7	2.3
Tensile Strength (N/mm ²)	11.4	12.1	11.0
Tensile Load (N/30mm)	510	620	760
Tear Force (N)	50	80	120
Tear Strength (N/mm)	33	47	52
Tensile Elongation (%)	46	58	84

Application Details

Substrate Quality

Decothane Base Coat must be fully cured before applying Decothane Top Coat. For the curing time please refer to the table below.

Substrate Preparation

Always allow any previous coats to dry/cure thoroughly before applying any subsequent coats. Coatings will generally require curing overnight, although under optimal conditions (at higher temperatures and low relative humidity) work may often recommence sooner (please refer to the relevant Technical Datasheet for curing details of any previous coats).

Substrate must be dry and clean, and all contamination that may hinder adhesion, such as dust, dirt, moss, oil, grease, coatings, etc. should be removed. Thoroughly clean by power wash and allow to dry.

Substrate Priming

Ideally overcoat within 2 days - If more than 7 days elapse between the application of the base coat and the Decothane Top Coat(s), clean the existing surface thoroughly before apply Sika Reactivation Primer and the next coat of Decothane.

Application Conditions / Limitations

Air Temperature +2°C min. / +35 °C max.

Substrate Temperature	+2°C min. / +60 °C max.
Substrate Moisture Content	Wood moisture equivalent (max): < 28% Please note: Reference should also be made to the appropriate primer technical datasheet.
Relative Air Humidity	20% min. / 85% max.
Dew Point	Beware of condensation. Surface temperature during application and cure must be a minimum of +3 °C above dew point.

Application Instructions

Mixing	No mixing required
Application Method	<p>Prior to the application of Decothane Base Coat the substrate must be prepared and the priming coat must have cured tack-free. For the waiting time/overcoating please refer to the technical datasheet of the appropriate primer.</p> <p>Omega 15, Gamma 20 & Delta 25:</p> <p>Apply first coat of Decothane Base Coat and roll in the Sika Reemat Premium whilst wet. Ensure there are no bubbles or creases and that the Sika Reemat Premium overlaps by a minimum of 5cm. Prior to the application of a second and third coat of Decothane Top Coat the indicated waiting time in the table below should be achieved.</p> <p>Please note: Always begin with details prior to waterproofing the horizontal surface. Please refer to the table on the previous page for coverage rates.</p>
Application Tools	<p>For best results apply Decothane Top Coat by brush (for details and penetrations) or roller. Rollers should be Tiger Stripe or High Density Medium Pile Rollers (available from Sika Liquid Plastics).</p> <p>A Deco applicator is also available for use on large roof areas. It is a gravity fed, easy to use spreader for Decothane Base Coat and Decothane Top Coat.</p>
Cleaning of Tools	Clean all tools and application equipment with proprietary cleaning solvent immediately after use. Hardened and/or cured material can only be removed mechanically.
Pot Life	Decothane Top Coat is designed for fast drying. High temperatures combined with high air humidity will increase the drying process. Thus, material in opened containers should be applied immediately. In opened containers, the material will form a film within 1 or 2 hours.

Curing Details

Applied Product ready for use	Temperature	Relative humidity	Rain resistant	Touch dry	Full cure
	+2°C	50%	1 hour	6-8 hours	12-16 hours
	+10°C	50%	1 hour	3 hours	6-8 hours
	+20°C	50%	1 hour	2 hours	4-6 hours

Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.



Notes on Application / Limitations

Do not apply Decothane Base Coat on substrates with rising moisture.

On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperatures “pin holing” may occur from rising air.

Substrate preparation is crucial to ensure highly durable quality. Precisely follow the instructions of the corresponding Primer and Cleaner technical datasheet.

Do not use Decothane Top Coat for indoor applications.

Do not apply close to the air intake vent of a running air conditioning unit.

Areas with high movement, irregular substrates, or timber based roof decks require a complete layer of Carrier Membrane SA.

Decothane Top Coat is not recommended for frequent traffic. If daily pedestrian traffic is unavoidable, Decothane Top Coat shall be covered with appropriate elements such as tiles, stone plates, or wooden panels.

Do not apply cementitious products (e.g. tile mortar) directly onto Decothane Top Coat.

When lower temperatures are anticipated (e.g. overnight), Decothane Accelerator is recommended to shorten the overall curing period. Decothane products should not be applied under conditions where these limits are likely to be exceeded.

Do not use grit salt and/or other de-icing agents between coats of Decothane as this may interfere with the cure and inter-coat adhesion of the product.

The application of the system must be approached as one operation. Always plan for reasonable progress of each coat. Work only so far in advance that the existing surface can be overcoated as the next operation. Finish the coating system completely before progressing to the next area. The ideal time between coats is within 48 hours.

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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, please refer to the most recent Material Safety Data Sheet.

Disclaimer The information, and, in particular, the recommendations relating to the application and end-use of Sika Liquid Plastics products, are given in good faith based on Sika Liquid Plastics' current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika Liquid Plastics' 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



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any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika Liquid Plastics 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.

Specification assistance

NBS is the industry standard specification system, which allows architects, specifiers and engineers to insert clauses into specifications by manufacturer and product, making the process quicker and more efficient. We are members of NBS Plus and therefore detailed up-to-date product information is readily available to create accurate specifications.

Contact Details

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