

Decothane Root Resistant Top Coat

Highly durable, root resistant, versatile and easily applied liquid roof waterproofing top coat

Product Description

Sika Liquid Plastics' Decothane Root Resistant Top Coat is a high performance polyurethane coating used as a finishing coat for the Decothane Inverted Roof waterproofing system.

Uses

- Top Coat for Sika Liquid Plastics Inverted Roof System
- 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 (B_{ROOF} (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
- Independently tested and certified resistant to root penetration
- 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

Test

Approvals / Standards

- European Technical Approval No. ETA-07/0004
- BBA Certificate No. 06/4359
- Root resistant to the FLL (2002) test method

Product Data

Form

Appearance / Colours Pigmented liquid
Black

Packaging 15 litres

Storage

Roofing



Storage Conditions / Shelf Life

Store in original, unopened and undamaged sealed packaging in dry conditions at temperatures $>0^{\circ}\text{C}$ and $< 25^{\circ}\text{C}$. Protect from frost.

A shelf-life of **6** 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.

Technical Data

Chemical Base	One-component moisture-triggered Polyurethane	
Density	1.41 kg/L ($+23^{\circ}\text{C}$)	(EN ISO 2811-1)
Solid Content	~ 80.0 % by volume / ~ 86.4 % by weight	
Flash Point	+ 62°C	
Service Temperature	-30 to $+80^{\circ}\text{C}$ (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 Service for specific recommendations.

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

System Information

Maximum Coverage Rate

Inverted Roof System: Main Deck Areas

Preparatory Layer	Carrier Membrane adhered with Decostik	1.0 L/m ²
Embedment Layer	Root Resistant Base Coat	1.5 L/m ²
	Sika Reemat Premium	
Top Coat	Root Resistant Top Coat	1.0 L/m ²

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

For upstands please see Decothane Root Resistant Detail Coat Technical Datasheet.

System Data

Dry Film Thickness 1.9 mm

Tensile Strength 8.0 N/mm²

Tear Force 60 N

Tear Strength 29 N/mm

Tensile Elongation 50 %

Application Details

Decothane Root Resistant Base Coat must be fully cured before applying Decothane Root Resistant 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. Where there is a risk of algal re-growth on absorbent surfaces use Sika Liquid Plastics Biowash. Please refer to the Biowash Technical Datasheet for further information.

Substrate Priming Ideally overcoat within 2 days - If more than 7 days elapse between the application of the base coat and the Decothane Root Resistant Top Coat(s), clean the existing surface thoroughly before apply Sika Liquid Plastics' 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.

Roofing



Application Instructions

Mixing No mixing required

Application Method Please refer to the table on the previous page for coverage rates. The rates quoted are for smooth, sealed surfaces. Rough, porous, absorbent or undulating surfaces will inevitably increase the quantity of coating required to achieve the necessary film thickness and a pin-hole free finish. 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).

Once applied, allow the final coat a minimum of two days cure prior to overlayment with insulation and ballasting. Decothane Inverted Roof Waterproofing system must be covered within fourteen days of installation to protect against accidental damage. If site factors prevent the laying of insulation and ballast within this period, a protection board should be used.

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

Application Tools For best results apply Decothane Top Coat by roller. Rollers should be disposable medium/long pile simulated sheepskin.

A Deco applicator is also available for use on large roof areas. It is a gravity fed, easy to use spreader for Root Resistant Base Coat, and Root Resistant Top Coat.

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 Root Resistant 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.

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.

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

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.
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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.



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Roofing



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