

PRODUCT DATA SHEET

Decothane Top Coat

HIGH PERFORMANCE, UV-STABLE, ONE-COMPONENT, LIQUID APPLIED POLYURETHANE TOP COAT

PRODUCT DESCRIPTION

Decothane Top Coat is a cold-applied, one-component, seamless, highly elastic and UV-stable moisture triggered polyurethane Top Coat (TC) designed to provide easy application and a durable solution as part of the Decothane® systems.

USES

- Top Coat for Decothane® Omega 15, Gamma 20 and Delta 25
- For cost efficient life cycle extension of failing roofs
- 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
- Fast curing, develops early rain resistance
- Easily re-coated when needed - no stripping required
- Good adhesion to most substrates- see primer chart
- Easy and quick application
- High elastic and crack-bridging - retains flexibility even at low temperatures
- Vapour permeable - allows substrate to breathe
- Strong resistance to common atmospheric chemicals

APPROVALS / STANDARDS

- British Board of Agrément (BBA) certified No. 92/2803 and No. 14/5147
- European Technical Approval tested in accordance with ETAg 005 certificate no. 03/0052 (CE Marked)
- External fire performance: BROOF(t4) & classification under BS 476-3: 1958 EXT.F.AA.roofs
- Energy Star

PRODUCT INFORMATION

Chemical Base	One-component, moisture-triggered aliphatic polyurethane
Packaging	15 l metal pail
Colour	White(RAL 9016), Dove Grey (RAL 7040), Shale Grey (RAL 8500), and Slate Grey(RAL 7015) other colours available upon request
Shelf Life	9 months when stored in accordance with recommendations at a temperature of 20°C.
Storage Conditions	The product must be stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 0 °C and +25 °C. Higher storage temperatures may reduce shelf life of product. Please refer to the storage recommendations within the safety data sheet.
Density	~1.44 kg/l (23 °C) (EN ISO 2811-1)

Solid content by weight	~ 87.4 % by weight		
Solid content by volume	~ 81.3 % by volume		
Chemical Resistance	Salt spray	1000 hours continuous exposure	(ASTM B117)
	Prohesion testing	1000 hours cyclic exposure	(ASTM G85-94: Annex A5)
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 Sika technical service for specific information.			
Solar Reflectance	Decothane Top Coat in White ≥ 109*		(ASTM 1980)
Service Temperature	-30 °C min. / +80 °C max.		

SYSTEM INFORMATION

System Structure	Please refer to System Data Sheets of Decothane® Systems
System Performance	Please refer to System Data Sheets of Decothane® Systems

APPLICATION INFORMATION

Ambient Air Temperature	+2 °C min. / +35 °C max.
Relative Air Humidity	20 % r.h. min. / 85 % r.h. max.
Substrate Temperature	+2 °C min. / +60 °C max.
Dew Point	Beware of condensation. Surface temperature during application and cure must be ≥3 °C above dew point
Substrate Moisture Content	Wood moisture equivalent (max): <28% Please note: Reference should also be made to the appropriate primer datasheet.
Substrate Pre-Treatment	Please refer to System Data Sheet of Decothane® Systems.
Pot Life	Decothane Top Coat is designed for fast curing. High temperatures combined with high air humidity will increase the curing process. Thus, material in opened containers should be applied immediately. In opened containers, the material will form a film after 1–2 hours approx. (+20 °C / 50 % r.h.).

Waiting Time / Overcoating		Minimum overcoating time
	+2 °C / 50 % r.h.	18 hours
	+10 °C / 50 % r.h.	8 hours
	+20 °C / 50 % r.h.	6 hours

*After four days the surface must be cleaned and primed with Sika® Reactivation Primer before continuing.

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

Applied Product Ready for Use	Ambient conditions	Rain resistance	Touch dry	Full cure
	+5 °C / 50 % r.h.	10 minutes*	8–12 hours	16–24 hours
	+10 °C / 50 % r.h.	10 minutes*	4 hours	8–12 hours
	+20 °C / 50 % r.h.	10 minutes*	3 hours	6–8 hours

* Be aware that impact of heavy rain or rain showers can physically damage the still liquid membrane.

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

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The surface must be sound, of sufficient strength, clean, dry and free of dirt, oil, grease and other contamination.

Depending on the material the substrate must be primed or mechanically cleaned. Grinding may be necessary to level the surface. Suitable substrates are such as: concrete, bituminous felts and coatings, metal, brickwork, asbestos cement, ceramic tiles, wooden substrates. For detailed information regarding substrate preparation, primers and application please refer to the project specific specification or Decothane® Systems application guide.

MIXING

Mixing is not required, however if the product is settled or separated on opening, stir Decothane Top Coat gently but thoroughly in order to achieve a uniform colour.

APPLICATION

Prior the application of Decothane Top Coat the priming coat if used must have cured tack-free. For the Waiting Time / Overcoating please refer to the PDS of the appropriate primer. Damageable areas (handrails etc.) have to be protected with tape or plastic wrapping. Please note, always begin with details prior to the installation of the horizontal surface.

1. Apply first coat of Decothane® Base Coat. Work only so far in advance that the material stays liquid*.
2. Roll in the Sikalastic® Reemat. Overlap the Reemat a minimum 5 cm and ensure overlaps are sufficiently wet to bond both layers.
3. The roller may require only a little extra material to keep wetted but no further significant material needs to be added at this stage.
4. After the coat is dry enough to walk on, seal the roof area with additional coats of Decothane Top Coat dependant on system.

CLEANING OF TOOLS

Clean all tools and application equipment with Thinner S immediately after use. Hardened and/or cured material can only be removed mechanically.

FURTHER DOCUMENTS

For detailed information regarding substrate preparation, primers and application please refer to the project specific specification or Decothane® Systems application guide.

LIMITATIONS

Do not dilute Decothane Top Coat with any solvent. Do not use Decothane Top Coat for indoor applications. Do not apply close to the air intake vent of a running air conditioning unit. Do not apply Decothane Top Coat directly on Decotherm® Insulation boards. Instead use appropriate Carrier Membrane on Decotherm® Insulation board and SDecothane Top Coat. Volatile bituminous materials may stain and or soften below the coating. Areas with high movement, irregular substrates, or timber based roof decks require a complete layer of an appropriate Carrier Membrane for more information please refer to Sika Technical Services. Do not apply cementitious products (e.g. tile mortar) directly onto Decothane Top Coat.

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

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42/CE, the maximum allowed content of VOC (Product category IIA / i type sb) is 600/500 g/l (Limits 2007 / 2010) for the ready to use product. The maximum content of Decothane Top Coat is <500 g/l VOC for the ready to use product.

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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