

PRODUCT DATA SHEET

Sika® Decothane Ultra Base Coat

1-part low odour polyurethane liquid applied base coat for use in conjunction with Decothane Ultra systems

PRODUCT DESCRIPTION

Sika® Decothane Ultra Base Coat is a 1-part, low odour, cold-applied, elastic, polyurethane base coat. It incorporates Sika's unique i-Cure technology.

USES

Sika® Decothane Ultra Base Coat may only be used by experienced professionals.

The product can be used for the following roof waterproofing applications:

A base coat for Decothane Ultra systems

- Flat and sloping fully exposed roof structures
- New construction and refurbishment projects
- Horizontal and vertical detailing around penetrations, drains, roof lights and complex geometries
- Failing roofs to extend the service life
- Sensitive areas requiring low odour

The product can be used on the following substrates:

- Fibre cement
- Bitumen sheet membranes
- Bituminous coatings
- Bricks
- Concrete
- Ferrous metals
- Paints / Coatings
- Stone
- Unglazed ceramic tiles
- Wood

Please note:

- The product is not suitable for permanent water immersion.
- The Product is not suitable for detailing works on single ply membranes.
- The Product may only be used for exterior applications

CHARACTERISTICS / ADVANTAGES

- The quick overcoating time provides early resistance to rain damage
- The low odour characteristics makes it suitable for odour sensitive projects
- A maintenance coat is easily applied when needed without the requirement to remove previous coats
- 1-Part ready to use
- Cold applied – requires no heat or flame
- High solid content
- Can be reinforced with Sika® Reemat Premium
- Resistant to many common environmental influences
- Easily detailed around complex geometries
- Applied by roller

APPROVALS / STANDARDS

- Odournet – Report Number SIK15A_roof_01_LW
- CE Marking and Declaration of Performance to European Technical Assessment ETA-14/0177, based on ETAG 005 Part 1 and Part 6 – Liquid applied roof waterproofing kits. Part 1: General. Part 6: Specific stipulations for Kits based on Polyurethane
- Water Vapour Transmission Properties according to BS EN 1931:2000, Flexible Sheets for Waterproofing, Method B for Plastic or Rubber sheets
- External fire performance: Broof (t4)
- Reaction to fire according to EN 13501-1: Euroclass E

PRODUCT INFORMATION

Chemical Base	1-part, aromatic polyurethane																																																																										
Packaging	15 litre metal containers Refer to current price list for packaging variations																																																																										
Colour	Oxide red (~RAL 3011)																																																																										
Shelf Life	12 months from date of production																																																																										
Storage Conditions	Product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +0 °C and +25 °C. Always refer to packaging.																																																																										
Density	~1,45 kg/l approx. (+23 °C)																																																																										
Solid content by mass	~83,2 % (+23 °C / 50 % r.h.)																																																																										
Solid content by volume	~78,0 % (+23 °C / 50 % r.h.)																																																																										
Tensile Strength	Unreinforced	Reinforced	(EN ISO 527-3)																																																																								
	~5,6 N/mm ²	~16,1 N/mm ²																																																																									
Elongation at Break	Unreinforced	Reinforced	(EN ISO 527-3)																																																																								
	~320 %	~16 %																																																																									
Service Temperature	-30 °C to +90 °C																																																																										
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Ambient Air Temperature	+5 °C min. / +35 °C max.																																																																										
Relative Air Humidity	20 % r.h. min. / 85 % r.h. max.																																																																										
Substrate Temperature	+5 °C min. / +60 °C max.																																																																										
Dew Point	Beware of condensation. The substrate and uncured applied membrane must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the membrane finish.																																																																										
Substrate Moisture Content	The Product can be applied on substrates with a moisture content of ≤ 4 %. The substrate must be visibly dry with no standing water.																																																																										

The following test methods can be used to determine the substrate moisture content:

- Sika®-Tramex meter
- CM-measurement
- Oven-dry-method

Substrate Pre-Treatment

Important: Other substrates must be tested for their compatibility. To ensure compatibility, carry out preliminary trials.

Important: Adhesion and compatibility suitability must be verified practically on site before commencing contract.

Note: For consumption rates and waiting time / overcoating, refer to the individual Product Data Sheet of the appropriate primer.

Substrate	Primer
Cementitious, concrete, brick, stone, ceramic tiles (unglazed)	Sika® Concrete Primer LO Sika® Bonding Primer
Metals: Ferrous or galvanised, lead, copper, aluminium, brass, stainless steel	Sikalastic® Metal Primer
Wood	Wood based roof decks require a complete layer of Sikalastic® Carrier. For small exposed sections, use Sika® Concrete Primer LO or Sika Bonding Primer.
Paint coatings	Subject to adhesion and compatibility tests

Pot Life

Sika® Decothane Ultra Base 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 30 minutes.

Waiting Time / Overcoating

Ambient conditions	Minimum waiting time
+5 °C / 50 % r.h.	~14 hours
+10°C / 50 % r.h.	~6-8 hours
+20°C / 50 % r.h.	~3-4 hours
+30°C / 50 % r.h.	~3 hours

Note: After seven days, the surface must be cleaned and primed with Sika® Reactivation Primer before applying subsequent coats.

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

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.

LIMITATIONS

- Do not apply on substrates with rising moisture.
- In opened containers, the material will form a film after 30 minutes
- Do not apply on porous substrates where significant moisture vapour transmission (out-gassing) will occur during application. Applying Sikalastic® Primer may assist with reducing or eliminating this effect.
- Do not apply close to running air conditioning unit intake vents. Switch off units and seal intakes before applying.
- Do not apply Product directly on Sikatherm® Insulation boards. Use specified and approved Carrier

- between Sikatherm® Insulation board and Product.
- Volatile bituminous materials may stain and or soften the Product.
- Areas with high movement, irregular substrates, or timber-based roof decks require a complete layer of approved Carrier installed before applying Product.
- Do not apply cementitious materials (e.g. tile mortar) directly onto the Product.

ECOLOGY, HEALTH AND SAFETY

EQUIPMENT

- Application equipment
- Brush
 - Roller

SUBSTRATE PREPARATION

IMPORTANT

The supporting structure must be of sufficient struc-

tural strength to support the new and existing layers of the roof build-up. The complete roof system including existing layers must be designed and secured against wind uplift loadings.

General

- Tensile adhesion strength of the substrate must be a minimum of 1,5 N/mm². If necessary, verify this by applying a test area first.
- Substrates must be free of standing water (no puddles) clean and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product and associated system products, preferably by industrial vacuuming equipment.
- To confirm adequate surface preparation and Sika® Decothane Ultra Base Coat adhesion, carry out a small trial before full application together with adhesion tests as required.

Asbestos cement roof panels

1. The roof panels must be in good structural condition, firmly bonded or mechanically fixed.
2. Replace or fix any defective or loose panels.
3. Thoroughly clean the surface in accordance with techniques that comply with local asbestos regulations and allow to dry if a wet technique is used.
4. Remove dust by industrial vacuuming equipment.

Bitumen sheet membranes*

IMPORTANT

Always use a fully reinforced system over bitumen sheet membranes.

1. Make sure the bituminous felt is firmly bonded or mechanically fixed to the substrate and does not contain any badly degraded areas.
2. Remove completely or repair any degraded or missing sections.
3. Treat surfaces as detailed below.

Surface treatment

- Mineral granules and talc finish: Remove loose granules and apply Sika® Decothane Ultra Base Coat
- Sikalastic® Metal Primer should be applied to fresh or volatile bitumen to prevent staining and bleed through.
- Polyethylene foil finish: Warm foil finish by lightly gas torching.
- Texflamina finish: Must be new.

Bituminous coatings*

IMPORTANT

Always use a fully reinforced system over bituminous coatings.

IMPORTANT

Old existing coatings which are not fully bonded to substrate must be removed.

1. Bituminous, volatile mastic or old coal tar coatings must be sound, firmly bonded, rigid and with a tack

free surface.

2. Remove any loose layers.
3. Thoroughly clean with soap and water and allow to dry.
4. Apply Sikalastic® Metal Primer or similar (e.g. Sikalastic U-Primer) over the complete coating.

Brick and stone

1. Brick, stone and mortar joints must be sound and preferably flush finished.
2. Replace loose bricks, stone and mortar.
3. Apply strips or sections of Sika® reinforcement over mortar joints.
4. Thoroughly clean the surface by power washing and allow to dry.

Concrete

1. Substrate must be sound with a minimum tensile adhesion strength of 1,5 N/mm², clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
2. New concrete must be cured for at least 28 days and have a tensile strength > 1,5 N/mm².
3. Substrates must be prepared mechanically using suitable substrate preparation equipment to remove cement laitance and achieve an open textured gripping surface profile suitable for the product thickness.
4. High spots can be removed by grinding.
5. Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed.
6. Repairs to the substrate, filling of joints, blowholes/voids and surface levelling must be carried out using appropriate products from the Sika-floor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sika® Decothane Ultra Base Coat.
7. Remove dust by industrial vacuuming equipment.

Ferrous metals

1. Metals and existing coatings must be in a sound surface condition.
2. Abrade surfaces to remove any rust and loose coatings.
3. Bare metal must achieve a bright rust-free finish.
4. Prepare substrate mechanically using suitable abrading, grinding, rotating wire brush or other similar equipment.
5. Apply Sikalastic® Metal Primer to optimise adhesion and protect metal from corrosion.
6. Apply strips or sections of Sika® reinforcement over joints and fixings.

Paints / Coatings

IMPORTANT

Old existing coatings which are not fully bonded to substrate must be removed.

1. The existing paint / coating must be sound and firmly bonded to the substrate.



2. Remove any oxidised or loose layers.
3. Prepare substrate mechanically using suitable abrading, grinding, rotating wire brush or other similar equipment.
4. Thoroughly clean the surface by power washing and allow to dry.

Wood

1. Wood and wood-based panel roof decks must be in good structural condition, firmly bonded or mechanically fixed.
 2. Replace or fix any defective or loose panels.
 3. Make sure that any nail or screw heads that are protruding above the surface of the top of the deck are hammered or screwed below the surface.
 4. Remove any sharp protrusions from the surface.
 5. Prepare substrate mechanically using suitable wood abrading equipment.
 6. Remove dust by industrial vacuuming equipment
- * Over new (fresh) bituminous membranes or substrates, bleed through of volatiles can lead to staining or discolouration and reduced long-term aesthetics of the coating. The use of Sikalastic Metal Primer as a barrier will prevent this and lead to best long-term aesthetic performance.

MIXING

IMPORTANT

Do not dilute with solvent or water.

Note: Mixing is not required, however if the product has separated, stir gently by manual or mechanical equipment thoroughly to achieve a uniform colour.

- Sika® Decothane Ultra Base Coat is supplied ready for use.
- Before application, mix for at least 1 minute or until the liquid and all the coloured pigment has achieved a uniform colour.

APPLICATION

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Note: Protect areas adjacent to the application from splashes with tape or plastic wrapping.

Note: Confirm waiting / overcoating times of any previous coats, is achieved before applying subsequent coats. (Refer to waiting / overcoating time in Application Information)

Note: Confirm product application conditions: substrate moisture content, substrate, air and product temperatures, relative humidity and dew point (Refer to Application information).

Note: Always begin application with detailing (i.e. corners, upstands, joints etc) before installation of the main horizontal surfaces.

Reinforced coating system Primer (If required)

IMPORTANT

Make sure the primer on the substrate is continuous and pore free.

Note: Refer to individual primer Product Data Sheet.

1. Apply the mixed primer onto the prepared substrate.
2. Apply the product evenly over the surface with a brush or roller.
3. Back roll the surface in two directions at right angles with a roller.
4. The primer must be continuous, pore free and to the required surface finish.

Base coat

1. Apply the Product onto the substrate. The consumption is specified in the System Data Sheets of the require primer.
2. Apply the Product evenly over the surface with a brush or roller.

Reinforcement

IMPORTANT

Make sure reinforcement overlaps are greater than 50 mm.

Note: It is recommended to work 1,0 m at a time lengthways applying the 1st coat and embedding the reinforcement.

1. Lay the appropriate Sika® Reinforcement onto the wet base coat.
2. Use a short pile roller to roll over the reinforcement and coating several times.
3. The reinforcement fibres must be fully encapsulated within the coating.
4. Protect Product from heavy rain or rain showers until dry to prevent surface damage.

Top coat (Decothane Ultra)

1. Apply the Product onto the substrate. The consumption is specified in the Product Data Sheet for Decothane Ultra.
2. Apply the Product evenly over the surface with a brush or roller.
3. Back roll the surface in two directions at right angles with a roller.
4. Avoid going back to re-work areas that are partially dried as this may damage the surface finish.
5. The coating must be continuous, pore free and to the required surface finish.
6. Protect Product from heavy rain or rain showers until dry to prevent surface damage

CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C immediately after use. Hardened material can only be removed mechanically.

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 exact product data and uses.

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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