

## PRODUCT DATA SHEET

# Sikalastic® D-10 RoofPro

### ONE-COMPONENT, LIQUID APPLIED POLYURETHANE WATERPROOFING MEMBRANE

#### PRODUCT DESCRIPTION

Sikalastic® D-10 RoofPro is a one-component, cold applied, moisture-triggered polyurethane membrane. It cures to form a seamless and durable waterproofing solution for exposed roof areas and structures.

#### USES

Sikalastic® D-10 RoofPro may only be used by experienced professionals.

- For roof waterproofing solutions in both new construction and refurbishment projects
- For roofs displaying complex detail areas, even when accessibility is limited
- For cost efficient life cycle extension of failing roofs

#### CHARACTERISTICS / ADVANTAGES

- Single component - No mixing, easy and ready to use
- Cold applied - requires no heat or flame
- Seamless membrane
- Compatible with Sika® Reemat Premium - easy to detail
- Easily recoated when needed - no stripping required
- Economic – provides a cost efficient life cycle extension of failing roofs
- Vapour permeable - allows substrate to breathe
- Elastic - retains flexibility even at low temperatures
- Good adhesion to most substrates – see table
- Fast curing - Free from rain damage almost immediately on application

#### APPROVALS / STANDARDS

Liquid applied roof waterproofing kit according to...

- ETAG 005 issued by Technical Assessment Body British Board of Agrément (BBA), Declaration of Performance 18636122 and provided with the CE marking.
- External fire performance according to ENV 1187:
- BRoof (t1) / Broof (t4) on non-combustible substrates
- BRoof (t1) / Broof (t2) over built up roofing system
- British Standard 476 part 3 Ext F.AA rating non-combustible substrates
- Reaction to fire according to EN13501: Euroclass E

#### PRODUCT INFORMATION

<b>Chemical Base</b>	One-component, moisture-triggered aromatic polyurethane
<b>Packaging</b>	Available in 15 or 5 litre tins
<b>Colour</b>	Standard colours available are RAL 7045 (Cloud Grey) and RAL 7011 (Storm Grey). Non-standard colours may be available subject to minimum order quantities and extended lead times.
<b>Shelf Life</b>	9 months from date of production

<b>Storage Conditions</b>	The product must be stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures >0 °C and <+25 °C. Higher storage temperatures may reduce shelf life of product. Reference shall also be made to the storage recommendations within the safety data sheet.		
<b>Density</b>	~1.38 kg/l (23 °C)		(EN ISO 2811-1)
<b>Solid content by mass</b>	~79 % (+23 °C / 50 % r.h.)		
<b>Solid content by volume</b>	~67 % (+23 °C / 50 % r.h.)		
<b>Tensile Strength</b>	<b>Not Reinforced</b> ~ 4.6 N/mm <sup>2</sup>	<b>Reinforced</b> ~ 18 N/mm <sup>2</sup>	(EN ISO 527-3)
<b>Elongation at Break</b>	<b>Not Reinforced</b> ~150 %	<b>Reinforced</b> ~20 %	(EN ISO 527-3)
<b>External Fire Performance</b>	On non-combustible substrates	B <sub>Roof</sub> (t1) / B <sub>Roof</sub> (t4)	(ENV 1187)
	Over built up roofing system	B <sub>Roof</sub> (t1) / B <sub>Roof</sub> (t2)	
<b>Reaction to Fire</b>	Euroclass E Ext F.AA rating Non Combustible substrates		(EN 13501) (BS 476-3)
<b>Service Temperature</b>	-20 °C min./ +90 °C max.		
<b>System Structure</b>	<b>Reinforced Roof Waterproofing</b> Sikalastic® D-10 RoofPro is applied in one coat reinforced with Sika® Reemat Premium and sealed with a further coat of Sikalastic® D-10 RoofPro		
	<b>Layer</b>	<b>Product</b>	<b>Consumption</b>
	1. Primer	Please refer to substrate pre-treatment	Refer to primer data sheet
	2. Base Coat	Sikalastic® D-10 RoofPro	≥ 1.0 l/m <sup>2</sup> (≥ 1.42 kg/m <sup>2</sup> )
	3. Reinforcement	Sika® Reemat Premium	-
	4. Top Coat	Sikalastic® D-10 RoofPro	≥ 0.75 l/m <sup>2</sup> (≥ 1.06 kg/m <sup>2</sup> )
	Note: These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage.		

## APPLICATION INFORMATION

<b>Ambient Air Temperature</b>	+5 °C min. / +40 °C max.
<b>Relative Air Humidity</b>	5 % r.h. min. / 85 % r.h. max.
<b>Substrate Temperature</b>	+5 °C min. / +60 °C max. ≥ 3 °C above dew point
<b>Substrate Moisture Content</b>	≤ 4 % pbw moisture content. Test method: Sika®-Tramex meter No rising moisture according to ASTM (Polyethylene-sheet).

## Substrate Pre-Treatment

Substrate	Primer
Cementitious substrates	Sika® Concrete Primer LO or Sika® Bonding Primer
Brick and Stone	Not required
Ceramic tiles (unglazed), and concrete slabs	Sika® Concrete Primer LO or Sika® Bonding Primer
Asphalt	Not required, subject to surface assessment tests
Bituminous felt	Not required, only fully reinforced systems
Single Ply	Adhesion to single ply may vary according to type, age etc. Adhesion test required
Bituminous Coating	Not required
Metals Ferrous or galvanised metals, lead, copper, aluminium, brass or stainless steel	Sikalastic® Metal Primer or Sika® Primer 204n
Wooden substrates	Timber based roof decks require a complete layer of Sikalastic® Carrier. For small exposed timber sections, use Sika® Concrete Primer LO or Sika® Bonding Primer
Paints	Subject to adhesion and compatibility tests
Existing Sika Liquid Plastics System	Sika® Reactivation Primer

For the consumption rates and waiting time / overcoating you should refer to the PDS of the appropriate cleaner and primer. Other substrates must be tested for their compatibility. If in doubt, apply a test area first.

## Pot Life

Sikalastic® D-10 RoofPro is designed for fast drying. 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 hour approx. (+20 °C / 50 % r.h.)

## Waiting Time / Overcoating

Ambient conditions	Minimum waiting time*
+5 °C / 50 % r.h.	18 hours
+10 °C / 50 % r.h.	8 hours
+20 °C / 50 % r.h.	6 hours
+30 °C / 50 % r.h.	4 hours

\*After four days the surface must be cleaned and primer 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 resistant*	Touch dry	Full cure
+5 °C / 50 % r.h.	10 minutes	10 hours	19 hours
+10 °C / 50 % r.h.	10 minutes	6 hours	10 hours
+20 °C / 50 % r.h.	10 minutes	4.5 hours	6 hours
+30 °C / 50 % r.h.	10 minutes	2 hours	4 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.

## 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.

## LIMITATIONS

- Do not apply Sikalastic® D-10 RoofPro on substrates with rising moisture.
- Sikalastic® D-10 RoofPro is not suitable for permanent water immersion.
- On substrates likely to exhibit out-gassing, apply during falling ambient and substrate temperature. If applied during rising temperatures “pin holing” may occur from rising air.
- Do not dilute Sikalastic® D-10 RoofPro with any solvent.
- Do not use Sikalastic® D-10 RoofPro for indoor applications.
- Do not apply close to the air intake vent of a running air conditioning unit.
- Do not apply Sikalastic® D-10 RoofPro directly on Sika® Insulation boards. Instead use a Sika® Carrier between Sika® Insulation board and Sikalastic® D-10 RoofPro.
- 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 Sikalastic® Carrier.
- Do not apply cementitious products (e.g. tile mortar) directly onto Sikalastic® D-10 RoofPro.
- Sikalastic® D-10 RoofPro may exhibit slight chalking at the surface – do not use run off water for live fish tanks, etc.
- Volatile bituminous materials may stain and or soften below the coating.
- Low melting point bituminous materials may need priming – using a darker shade also helps hide any staining from the volatiles.

## ECOLOGY, HEALTH AND SAFETY

### 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.

### MIXING

Mixing is not required, however if the product is settled or separated on opening, stir Sikalastic® D-10 RoofPro gently but thoroughly in order to achieve a uniform colour. Stirring gently will minimise air entrainment.

### APPLICATION

Prior the application of Sikalastic® D-10 RoofPro 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.

#### Reinforced Roof Waterproofing:

Sikalastic® RoofPro is applied in combination with Sika Reemat Premium.

1. Apply first coat of approximately 1 l/m<sup>2</sup> of Sikalastic® D-10 RoofPro. Work only so far in advance that the material stays liquid.
2. Roll in the Sikalastic® Reemat Premium. Overlap it 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 wet 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 second coat of Sikalastic® D-10 RoofPro at a minimum 0.75 l/m<sup>2</sup> per coat.

Please note, always begin with details prior starting with waterproofing the horizontal surface. For details follow step 1-4.

### CLEANING OF TOOLS

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

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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.

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