



# Sikalastic®-601 BC

(Decothane Base Coat)

High performance, versatile and easily applied liquid Roof Waterproofing Base Coat

Construction

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## Product Description

Sikalastic®-601 BC is a cold-applied, seamless, highly elastic, one-component, moisture-triggered polyurethane Base Coat (BC) designed to provide easy application and a durable solution in combination with Sikalastic®-621 TC (Top Coat).

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## Uses

- For SikaRoof® MTC 12, 15, 18, 22 and SikaRoof® MTC Cold Bonding 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
- For reflective coatings to enhance energy efficiency by reducing cooling costs

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## Characteristics / Advantages

- Proven technology - over 20 years track record
- Easy and quick application
- Fast curing, ability to rapidly become resistant to rain damage
- Highly elastic and crack-bridging
- Seamless roof waterproofing membrane
- When used with approved primers, will fully bond to most substrates preventing the migration of water
- Vapour permeable
- Strong resistance to common atmospheric chemicals
- Low odour during application
- Long shelf life – 12 months

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## Tests

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- Approval / Standards** ■ European Technical Approval No. ETA-09/0139: SikaRoof® MTC 12, SikaRoof® MTC 15, SikaRoof® MTC 18, SikaRoof® MTC 22, SikaRoof® MTC Cold Bonding
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## Product Data

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### Form

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**Appearance / Colours** Oxide Red

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**Packaging** 15 litre pails (approx. 20.50 kg)

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## Storage

**Storage Conditions / Shelf Life** 12 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures > 0 °C and <20 °C.  
Higher storage temperatures may reduce shelf life of product.

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## Technical Data

<b>Chemical Base</b>	One-component moisture-triggered Polyurethane	
<b>Density</b>	1.37 kg/l All density values at +23 °C	(EN ISO 2811-1)
<b>Solid Content</b>	~ 80.2% by volume / ~ 86.0% by weight	
<b>Flash Point</b>	59°C	
<b>Service Temperature</b>	-30 to + 80°C (intermittent)	

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## Chemical Properties

**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).

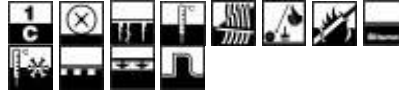
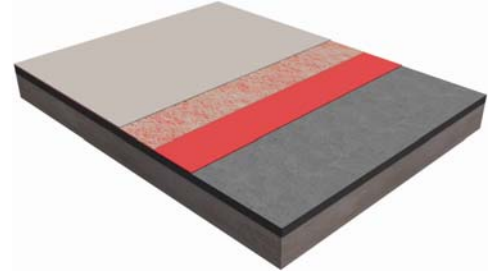
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## System Information

### System Structure

#### Exposed Roofs

To provide a UV-stable coating, to extend life expectancy of old roofs, to provide reflective coatings to enhance energy efficiency, or for high-performance waterproofing solutions on new construction and refurbishment projects.

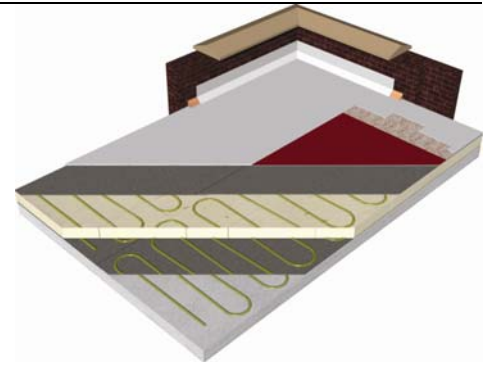
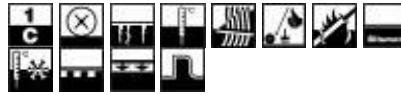


	SikaRoof® MTC 12	SikaRoof® MTC 15	SikaRoof® MTC 18	SikaRoof® MTC 22
Build up	Sikalastic®-601 BC applied in 1 coat, reinforced with Sika® Reemat Standard and sealed with Sikalastic®-621 TC	Sikalastic®-601 BC applied in 1 coat, reinforced with Sika® Reemat Premium and sealed with 1 coat Sikalastic®-621 TC	Sikalastic®-601 BC applied in 1 coat, reinforced with Sika® Reemat Premium and sealed with 1 coat Sikalastic®-621 TC	Sikalastic®-601 BC applied in 1 coat, reinforced with Sika® Reemat Premium and sealed with 2 coats Sikalastic®-621 TC
Substrates	Sound concrete and cement screed, metals, wood, bituminous felt and asphalt in good condition, spray applied foam, brick and stones, slates and tiles, plastics (GRP, UPVC, ABS)	Sound concrete and cement screed, metals, wood, bituminous felt and asphalt in moderate condition, spray applied foam, brick and stones, slates and tiles, plastics (GRP, UPVC, ABS)	Sound concrete and cement screed, metals, wood, bituminous felt and asphalt in moderate condition, spray applied foam, brick and stones, slates and tiles, plastics (GRP, UPVC, ABS)	Sound concrete and cement screed, metals, wood, bituminous felt and asphalt in moderate condition, spray applied foam, brick and stones, slates and tiles, plastics (GRP, UPVC, ABS)
Primer	Please refer to Sikalastic® Primer chart below			
Total dry film thickness (BC and TC)	1.2mm	1.5mm	1.8mm	2.2mm
Total consumption	BC: ≥ 0.75l/m <sup>2</sup> (≥ 1.0kg/m <sup>2</sup> )	BC: ≥ 1l/m <sup>2</sup> (≥1.4kg/m <sup>2</sup> )	BC: ≥ 1l/m <sup>2</sup> (≥1.4kg/m <sup>2</sup> )	BC: ≥ 1l/m <sup>2</sup> (≥1.4kg/m <sup>2</sup> )
	TC: ≥ 0.75l/m <sup>2</sup> (≥ 1.0kg/m <sup>2</sup> )	TC: ≥ 0.75l/m <sup>2</sup> (≥1.0kg/m <sup>2</sup> )	TC: ≥ 1.1l/m <sup>2</sup> (≥1.6kg/m <sup>2</sup> )	TC: ≥ 1.6l/m <sup>2</sup> (≥2.3kg/m <sup>2</sup> )
Tensile strength	9N/m <sup>2</sup>	11.4N/m <sup>2</sup>	12.1N/m <sup>2</sup>	11N/m <sup>2</sup>
Tear force	33 N/mm	50 N/mm	80 N/mm	120 N/mm
Tensile Elongation	38%	46%	58%	84%
Vapour permeability	6.59 g/m <sup>2</sup> /day	6.46 g/m <sup>2</sup> /day	5.78 g/m <sup>2</sup> /day	3.77 g/m <sup>2</sup> /day
	μH <sub>2</sub> O: 4133	μH <sub>2</sub> O: 3480	μH <sub>2</sub> O: 3584	μH <sub>2</sub> O: 4274

## Built-up Roofs

### SikaRoof® MTC Cold Bonding

Insulated built-up roof waterproofing design for new construction and refurbishment projects.

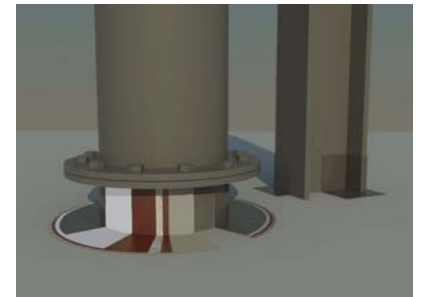


Build up: Consult Sika's Technical Department  
 Substrates: Plywood, concrete, galvanised steel, aluminium, asphalt, bituminous felt (incl. SBS), PVC, EVA, EPDM, FPO/TPO  
 Primer: Please refer to Sikalastic® Primer chart below  
 Total dry film thickness: 1.2 to 2.2 mm (BC and TC)  
 Total consumption: BC: ≥ 1.0 to 1.4 kg/m<sup>2</sup>  
 TC: ≥ 1.0 to 2.3 kg/m<sup>2</sup>

## Professional Detailing

### SikaRoof® MTC Flashing

As a flashing kit, can be used with bituminous felt to form a complete waterproofing system.



Build up: Sikalastic®-601 BC applied in 1 coat, reinforced with Sika® Reemat Premium and sealed with 1 coat Sikalastic®-621 TC  
 Substrates: Bituminous membrane.  
 Primer: Please refer to Sikalastic® Primer chart below  
 Dry film thickness: 1.5 to 1.8 mm (BC and TC)  
 Total consumption: BC: ≥ 1.4 kg/m<sup>2</sup>  
 TC: ≥ 1.0 to 1.6 kg/m<sup>2</sup>

	One component product. Stir before using
	Low-temperature stability
	Thermal-shock resistant, i.e. will not be damaged by extended or sudden thermal exposure to ice, hail, rain, direct sunlight or rapid thermal swings
	Highly elastic and crack-bridging
	Vapour permeable
	Easy application by brush, roller or airless spray equipment even when accessibility is limited
	Bonds fully to most substrates, preventing the migration of water
	Seamless waterproofing membrane
	Withstands mechanical loads of pedestrian and light wheeled traffic
	Fire resistant
	Compatible with bituminous felts
	Resistant to wind uplift

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## Application Details

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### Substrate Quality

#### Cementitious substrates

New concrete should be allowed a minimum of 10 days before priming, ideally 28 days. Inspect the concrete, including upstands, all areas should be hammer tested. Concrete must be suitably finished, preferably by wood float or steel pan. A power float finish is acceptable where the surface is prepared to avoid laitance (a tamped finish is not acceptable). The surface finish must be uniform and free from defects such as laitance, voids or honeycombing.

#### Brick and stone

Mortar joints must be sound and preferably flush pointed.

#### Slates, tiles, etc.

Ensure all slates/tiles are sound and securely fastened, replacing obviously broken or missing sections.

#### Asphalt

Asphalt contains volatiles which can cause bleeding and slight non-detrimental staining. The asphalt must be carefully assessed for moisture and/or air entrapment, grade and surface finish prior to any coating works being carried out.

#### Bituminous felt

Ensure that Bituminous felt is firmly adhered or mechanically fixed to the substrate. Bituminous felt should not contain any badly degraded areas.

#### Bituminous coatings

Bituminous coatings should not have sticky or mobile surfaces, volatile mastic coatings, or old coal tar coatings.

#### Metals

Metals must be in sound condition.

#### Wooden substrates

Timber and timber based panel roof decks are to be in good condition, firmly adhered, or mechanically fixed.

#### Paints/Coatings

Ensure the existing material is sound and firmly adhered.

#### Existing SikaRoof® MTC Systems

The existing SikaRoof® MTC Systems should still be soundly adhered to the substrate.

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**Substrate Preparation** Cementitious substrates

Cementitious or mineral based substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and to achieve an open textured surface.

Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed.

Repairs to the substrate, filling of joints, blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, SikaDur® and SikaGard® range of materials.

High spots must be removed by e.g. grinding.

Outgassing is a naturally occurring phenomenon of concrete that can produce pinholes in subsequently applied coatings. The concrete must be carefully assessed for moisture content, air entrapment, and surface finish prior to any coating work. Any requirement for priming must also be considered. Installing the membrane either when the concrete temperature is falling or stable can reduce outgassing. It is generally beneficial, therefore, to apply the embedment coat in the late afternoon or evening.

Brick and stone

Power wash, biocidal treatment as required.

Slates, tiles, etc.

Slates, tiles, etc. require good adhesion to the substrate otherwise they need to be removed. Power wash, biocidal treatment as required.

Asphalt

Power wash, biocidal treatment as required. All major cracks should be sealed to allow continuity of the SikaRoof® MTC System. Asphalt must be carefully assessed for moisture and/ or air entrapment, grade and surface finish prior to any coating works being carried out. Any priming requirement must also be considered.

Bituminous felt

Power wash, biocidal treatment as required. Treat blisters by star cutting and removing any underlying water. Allow to dry and re-adhere consult Sika's Technical Department for further details.

Bituminous coatings

Remove loose or degraded coatings. Apply the SikaRoof® MTC System directly.

Metals

Steelwork is ideally prepared to Sa2½ (Swedish Standard SIS 05 : 5900 = 2nd quality BS4232 = S.S.P.C. grade SP10) OR as indicated by the blasting specification which may be of a higher standard. Where blasting is not permitted, clean metal preparation by pin hammer, etc. is acceptable.

Non-ferrous metals are prepared as follows. Remove any deposits of dust and oxidation and abrade to bright metal. Wire brushing can be used for soft metal such as lead. The surface must be clean and free from grease which, if present, must be removed with a proprietary solution. Wash with detergent, rinse and dry.

Wooden substrates

Consult Sika's Technical Department.

Paints/Coatings

Remove loose or degraded coatings. Ensure the surface is clean and free from grease.

Existing SikaRoof® MTC System

Clean the membrane using a water jet at approximately 140bar (2000 p.s.i) using biocidal treatment if necessary. Allow to dry.

*Note: For the Waiting Time /Overcoating you should refer to the PDS of the appropriate cleaner. Other substrates must be tested for their compatibility. If in doubt, apply a test area first.*

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Substrate Priming	Substrate	Primer
	<u>Cementitious substrates</u>	Consult Sika's Technical Department
	<u>Brick and Stone</u>	Not required
	<u>Slate, tiles, etc.</u>	Not required
	<u>Asphalt</u>	Not required, subject to surface assessment tests
	<u>Bituminous felt</u>	Not required
	<u>Bituminous coatings</u>	Not required
	<u>Metals</u> Ferrous or galvanised metals, lead, copper, aluminium, brass or stainless steel	Consult Sika's Technical Department
	<u>Wooden substrates</u>	Consult Sika's Technical Department
	<u>Paints</u>	Consult Sika's Technical Department
	<u>Existing SikaRoof® MTC System</u>	Consult Sika's Technical Department
<p><i>Note: For the 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.</i></p>		

## Application Conditions / Limitations

<b>Substrate and ambient Temperature</b>	+5 °C min. / +35 °C max.
<b>Substrate Moisture Content</b>	< 4 % moisture content. No rising moisture according to ASTM (Polyethylene-sheet). No water / moisture / condensation on the substrate.
<b>Relative Air Humidity</b>	5 % min. / 85 % max.
<b>Dew Point</b>	Beware of condensation. Surface temperature during application must be at least +3 °C above dew point.

## Application Instructions

<b>Mixing</b>	Not required
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<p><b>Application Method</b></p>	<p>Prior to the application of Sikalastic®-601 BC the substrate must be prepared and the priming coat must have cured tack-free. For the Waiting Time/Overcoating please refer to the PDS of the appropriate primer.</p> <p><b><u>Exposed Roofs</u></b>            SikaRoof® MTC 12, 15, 18, 22: First apply a coat of Sikalastic®-601 BC and roll in the Sika® Reemat whilst wet. Ensure that there are no bubbles or creases and that the Sika® Reemat overlaps by a minimum of 5cm. Prior to the application of Sikalastic®-621 TC 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.</p> <p><b><u>Built-up Roofs</u></b>            Consult Sika's Technical Department.</p> <p><b><u>Professional Detailing</u></b>            SikaRoof® MTC Flashing: Ensure that Bituminous felt is firmly adhered or mechanically fixed. Apply first coat of Sikalastic®-601 BC, and roll in the Sika® Reemat Premium whilst wet. Ensure there are no bubbles or creases and that the Reemat overlaps by a minimum of 5cm. Prior to the application of a second and third coat of Sikalastic®-621 TC the indicated Waiting Time in the table below should be achieved.</p>
<p><b>Application Tools</b></p>	<p><b><u>Jet washer:</u></b> If dust, vegetation, moss / algae or other contaminants are present on the existing roof, a power washer is required to clean the substrate prior to the application of SikaRoof® MTC Systems. Existing chippings should be removed by hand or scabbling prior to power washing.</p> <p><b><u>Squeegee:</u></b> Useful when removing excess water from the roof after overnight rain</p> <p><b><u>Drill and paddle:</u></b></p> <p><b><u>Medium pile roller:</u></b> Used in the application of Sikalastic®-601 BC and Sikalastic®-621 TC to ensure a consistent thickness of the seamless SikaRoof systems.</p> <p><b><u>Small Medium pile roller:</u></b> Used in the application of Sika® Reemat, Sikalastic®-601 BC and Sikalastic®-621 TC to details and penetrations throughout the roof construction.</p> <p><b><u>Brushes:</u></b> For application of Sika® Reemat , Sikalastic®-601 BC and Sikalastic®-621 TC to all details and penetrations.</p> <p><b><u>Stanley knife:</u></b></p> <p><b><u>Saw:</u></b> Used when cutting thick Insulation boards.</p> <p><b><u>Airless spray equipment:</u></b> Used only for the SikaRoof® MTC 8 System. Two spray applied layers is the minimum requirement. The pump should have the following parameter:</p> <ul style="list-style-type: none"> <li>- min. pressure: 220 bar</li> <li>- min. output: 5.1 l/min</li> <li>- min. Ø nozzle: 0.83mm (0.033 inch)</li> </ul> <p>For example: Wagner Heavycat HC 940 E SSP Spraypack</p>

<b>Cleaning of Tools</b>	Clean all tools and application equipment immediately after use with Thinner C. Hardened and/or cured material can only be removed mechanically.
<b>Pot life</b>	Sikalastic®-601 BC 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. <u>In opened containers, the material will form a film within 1 or 2 hours.</u>

### 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 Sikalastic®-601 BC 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 PDS.  
 Do not use Sikalastic®-601 BC for indoor applications.  
 Do not apply close to the air intake vent of a running air conditioning unit.  
 Do not apply Sikalastic®-601 BC directly on Insulation boards. Consult Sika’s Technical Department for further details.  
 Areas with high movement, irregular substrates, or timber based roof decks. consult Sika’s Technical Department.  
 Do not apply cementitious products (e.g. tile mortar) directly onto Sikalastic®-601 BC or Sikalastic®-621 TC

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**Value Base**

All technical data stated in this Product Data Sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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**Health and Safety Information**

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological, and other safety-related data.

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**Important Notification**

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

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**Sika Australia Pty Limited** ABN: 12 001 342 329  
www.sika.com.au Tel: 1300 22 33 48