BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-601 BC

Single component saturating resin for Sikalastic® RoofPro Roofing Systems

PRODUCT DESCRIPTION

Sikalastic®-601 BC is a cold applied, highly elastic, aliphatic, single component, moisturetriggered polyurethane resin designed for easy application as part of Sikalastic®-601/621 RoofPro roofing systems.

USES

Sikalastic®-601 BC may only be used by experienced professionals.

- Embedment resin for Sikalastic® RoofPro 10 and 15 year systems reinforced with Sika Reemat, including Sikalastic® RoofPro Direct, Recover, Built-Up, Inverted, and Vegetated systems for both new construction and refurbishment.

CHARACTERISTICS / ADVANTAGES

- Proven technology - over 30 year track record
- One component – no mixing, easy and ready to use
- Cold applied - requires no heat or flame
- Seamless roof waterproofing membrane
- Compatible with Sika® Reemat Premium - easy to detail
- Fast curing - free from rain damage almost immediately on application
- High elastic and crack-bridging - retains flexibility even at low temperatures
- High root resistance
- Easily recoated when needed - no stripping required
- Good adhesion to most substrates- see primer chart
- Vapour permeable - allows substrate to breathe
- Strong resistance to common atmospheric chemicals

PRODUCT INFORMATION

APPROVALS / STANDARDS

As part of Sikalastic®-601/621 RoofPRO Roofing System:

- FM Approval Standard 4470 for Class 1 Roof Covers
- ASTM E-108-00 Spread of Flame meets Class A at a slope of 1 in 12
- Simulated wind uplift pull testing meets up to Class 1-990
- Simulated hail damage testing meets rating of SH - Severe Hail

- Miami-Dade County NOA for Roof Systems over Concrete and Steel Decks
- USGBC LEED rating: Conforms to LEED SS Credit 7.2 for Heat Island Effect - Roof with SRI >/=78
- Meets ASTM D7311-07: Standard Specification for Liquid-Applied, Single-Pack, Moisture-Triggered, Aliphatic Polyurethane Roofing Membrane.

Chemical Base	One-component, moisture-triggered aliphatic Polyurethane	
Packaging	5 gal. (19 L) metal pail	
Color	Oxide red (RAL 3011)	
Shelf Life	9 months from date of production	
Storage Conditions	Store dry between 35 °F and 77 °F (2–25 °C). Condition material to 50–77 °F (10–25 °C) before using for ease of application	
Density	~11.35 lb./gal. (~1.36 kg/l) (73 °F, 23 °C)	
Solid content by volume	77 %	(ASTM D-2697)
Volatile organic compound (VOC) content	212 g/l	(ASTM D-2369-81)

TECHNICAL INFORMATION

Tensile Strength	Please refer to Sikalastic®-601 BC /621 System Data Sheet	(ASTM D-751)
Elongation at Break	Please refer to Sikalastic®-601 BC /621 System Data Sheet	(ASTM D-751)
Tear Strength	Please refer to Sikalastic®-601 BC /621 System Data Sheet	(ASTM D-751)
Resistance to Static Puncture	Please refer to Sikalastic®-601 BC /621 System Data Sheet	(ASTM D-5602)
External Fire Performance	Class A	(ASTM E 108)
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 Sika technical service for specific information.	
Service Temperature	-22 °F (-30 °C) min. / 176 °F (80 °C) max.	

SYSTEM INFORMATION

System Structure	Please refer to System Data Sheets of Sikalastic®-601 BC/621 Systems
System Performance	Please refer to System Data Sheets of Sikalastic®-601 BC/621 Systems

APPLICATION INFORMATION

Coverage	40 ft²/gal. - 40 mils wet film thickness 35 ft²/gal. - 45 mils wet film thickness
Ambient Air Temperature	41 °F (5 °C) min. / 95 °F (35 °C) max.
Relative Air Humidity	80 % R.H. max.
Substrate Temperature	41 °F (5 °C) min. / 140 °F (60 °C) max.
Dew Point	Beware of condensation. The substrate and uncured coating must be ≥ 5 °F (3 °C) above dew point.
Substrate Moisture Content	≤4 % pbw moisture content. Test method: Sika®-Tramex meter No rising moisture according to ASTM (Polyethylene-sheet).
Pot Life	Sikalastic®-601 BC is designed for fast curing. High temperatures combined with high air humidity will accelerate 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. (68 °F, 20 °C / 50 % R.H.).

Waiting / Recoat Times

Ambient conditions	Minimum waiting time overcoating
+40 °F / 50 % r.h.	14 hours
+50 °F / 50 % r.h.	6 hours
+70 °F / 50 % r.h.	5 hours

*After 7 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.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All substrate surfaces shall be clean, dry and sound. Acceptable substrates include: sound concrete and cementitious screed, metals, wood, modified bitumen, mineralized felt, EPDM, hypalon, TPO, sprayed polyurethane foam, brick and stone, slate and tile, and existing liquid applied membranes. Reference separate System Data Sheet for specific surface preparation requirements.
Primer
Apply primer of a type suitable for the substrate. Allow primer to cure completely before applying Sikalastic®-601 BC resin. Reference separate System Data Sheet for specific primer recommendations.

MIXING

No mixing necessary

APPLICATION

Apply Sikalastic®-601 resin to the primed substrate surface by means of 1/2” nap phenolic resin core roller or brush at the specified application rate to achieve a uniform and consistent wet mil thickness (reference separate System Data Sheet). Material can also be squeegee\ or spray applied, in which case it should also be backrolled. Apply Sika Reemat into the wet embedment resin and roll the scrim to achieve full saturation and embedment. Reemat shall be cut to conform to substrate transitions and flashing conditions, with a typical 2” reinforcement
overlap. Resin shall saturate the Reemat from below. Apply additional Sikalastic®-601 resin as required to ensure full scrim embedment. Allow to cure completely before applying subsequent resin layers.

CLEANING OF TOOLS

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

LIMITATIONS

- Minimum age of concrete must be 28 days depending on curing and drying conditions.
- Do not thin with solvents.
- Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect material with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.
- Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure.This condition may be checked using ASTM D 4263 (Polyethylene sheet method).
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.
- On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pinholing or blistering may occur.
- Do not use for indoor applications unless sufficient air flow and ventilation are provided to prevent odors and/or vapors from leaving the immediate work area.
- Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odors and/or vapors into the building/structure during product application and cure.
- For areas with direct exposure to heavy or frequent foot traffic, an additional wear coat protection with slip resistant aggregate is required. Opening to traffic prior to cure may result in loss of aggregate or permanent staining and subsequent premature failure.
- Do not apply cementitious products, such as tile mortar directly onto Sikalastic®-601 BC. See Sikalastic®-624 WP or Sikalastic®-644 Lo VOC Product Data Sheet.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
- When applying over existing coatings or membranes compatibility and adhesion testing and subsequent

approval by Technical Services is required.
- Opening to traffic prior to cure may result in loss of aggregate or permanent staining and subsequent premature failure.
- On grade concrete decks should not be covered with Sikalastic® RoofPro membrane systems.
- Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete deck overlays should not be covered with Sikalastic® RoofPro systems without additional deck evaluation and subsequent approval by Technical Services.
- Do not subject to continuous immersion, i.e., fountains, ponds, pools, or interior of tanks.
- Not recommended for use over ceramic tile.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**
- **FOR INDUSTRIAL USE ONLY**
- **FOR PROFESSIONAL USE ONLY**

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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