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

USES
Sikalastic®-621 TC may only be used by experienced professionals.
- Top coat resin for Sikalastic® RoofPro 10, 15 & 20 year systems reinforced with Sika Reemat.
- Embedment resin for Sikalastic® RoofPro 25 year systems reinforced with Sika Reemat.
- Saturating resin for Sikalastic® RoofPro 15, 20 and 25 year systems reinforced with Sika Fleece.
- Typically applied in Sikalastic® RoofPro Direct, Recover, Built-Up, Inverted, and Vegetate 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
- UV resistant - Highly reflective (RAL 9016) and resistant to yellowing
- Cold applied - requires no heat or flame
- Seamless roof waterproofing membrane
- Compatible with Sika® Reemat Premium - easy to detail
- Fast curing - free from resin damage almost immediately on application
- High elastic and crack-bridging - retains flexibility even at low temperatures
- High root resistance
- Easily re-coated 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

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
PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Chemical Base</th>
<th>One-component, moisture-triggered aliphatic polyurethane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaging</td>
<td>5 gal. (19 L) metal pail</td>
</tr>
<tr>
<td>Color</td>
<td>White (RAL 9016), Pearl Gray, Steel Gray, Mushroom, Copper Green; custom colors available with minimum order.</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>9 months from date of production</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>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</td>
</tr>
<tr>
<td>Density</td>
<td>~12 lb./gal. (~1.44 kg/l) (73 °F, 23 °C)</td>
</tr>
<tr>
<td>Solid content by volume</td>
<td>81 % (ASTM D-2697)</td>
</tr>
<tr>
<td>Volatile organic compound (VOC) content</td>
<td>183 g/l (ASTM D-2369-81)</td>
</tr>
</tbody>
</table>

TECHNICAL INFORMATION

| Tensile Strength | Please refer to Sikalastic®-601/621 System Data Sheet (ASTM D-751) |
| Elongation at Break | Please refer to Sikalastic®-601/621 System Data Sheet (ASTM D-751) |
| Tear Strength    | Please refer to Sikalastic®-601/621 System Data Sheet (ASTM D-751) |
| Resistance to Static Puncture | Please refer to Sikalastic®-601/621 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 al- kalis. Some low molecular weight alcohols can soften the material. Contact Sika technical service for specific information. |
| Solar Reflectance | 0.87* (ASTM C-1549) |
| Solar Reflectance Index | ≥ 108* (ASTM 1980) |
| Service Temperature | -22 °F (30 °C) min. / 176 °F (80 °C) max. |

SYSTEM INFORMATION

| System Structure | Please refer to Sikalastic®-601/621 System Data Sheet |
| System Performance | Please refer to Sikalastic®-601/621 System Data Sheet |

APPLICATION INFORMATION

<table>
<thead>
<tr>
<th>Coverage</th>
<th>Sika Reemat</th>
<th>Sika Fleece</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>80 sf/gal.–20 mils wet film thickness</td>
<td>25 sf/gal.–65 mils wet film thickness</td>
</tr>
<tr>
<td></td>
<td>53 sf/gal.–30 mils wet film thickness</td>
<td>20 sf/gal.–80 mils wet film thickness</td>
</tr>
<tr>
<td></td>
<td>45 sf/gal.–35 mils wet film thickness</td>
<td>16 sf/gal.–100 mils wet film thickness</td>
</tr>
<tr>
<td></td>
<td>35 sf/gal.–45 mils wet film thickness</td>
<td></td>
</tr>
</tbody>
</table>

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®-621 TC 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 hour approx. (68 °F, 20 °C / 50 % R.H.).

Waiting Time / Overcoating
<table>
<thead>
<tr>
<th>Ambient conditions</th>
<th>Minimum waiting time overcoating</th>
</tr>
</thead>
<tbody>
<tr>
<td>+40 °F / 50 % r.h.</td>
<td>14 hours</td>
</tr>
<tr>
<td>+50 °F / 50 % r.h.</td>
<td>6 hours</td>
</tr>
<tr>
<td>+70 °F / 50 % r.h.</td>
<td>5 hours</td>
</tr>
</tbody>
</table>

*After 7 days the surface must be cleaned and primed with Sika® Reactiva-
tion Primer before continuing.
Note: Times are approximate and will be affected by changing ambient condi-
tions particularly temperature and relative humidity.

Applied Product Ready for Use
<table>
<thead>
<tr>
<th>Ambient conditions</th>
<th>Rain resistant</th>
<th>Touch dry</th>
<th>Full cure</th>
</tr>
</thead>
<tbody>
<tr>
<td>+40 °F / 50 % r.h.</td>
<td>10 min.</td>
<td>12 hours</td>
<td>24 hours</td>
</tr>
<tr>
<td>+50 °F / 50 % r.h.</td>
<td>10 min.</td>
<td>6 hours</td>
<td>18–24 hours</td>
</tr>
<tr>
<td>+70 °F / 50 % r.h.</td>
<td>10 min.</td>
<td>4 hours</td>
<td>12–18 hours</td>
</tr>
</tbody>
</table>

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

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION
All substrate surfaces shall be clean, dry and sound. Ac-
ceptable substrates include: sound concrete and cemen-
titious screed, metals, wood, modified bitumen, mineral-
ized 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®-
621 TC resin. Reference separate System Data Sheet for
specific primer recommendations.

MIXING
No mixing necessary

APPLICATION
Sika Reemat - Base Resin
Apply Sikalastic®-621 TC resin to the primed substrate
surface by means of 1/2” (12.7 mm) nap phenolic resin
core roller or brush at the specified application rate to
achieve a uniform and consistent wet mil thickness (re-
ference 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 em-
bedment resin and roll the scrim to achieve full satura-
tion and embedment. Reemat shall be cut to conform to
substrate transitions and flashing conditions, with a typi-
cal 2” (50.8 mm) reinforcement overlap. Resin shall sat-
urate the Reemat from below. Apply additional Sikalast-
ic®-621 TC resin as required to ensure full scrim embed-
ment. Allow to cure completely before applying sub-
sequent resin layers.

Sika Reemat - Intermediate and Top Resin
Apply Sikalastic®-621 TC resin to the cured
Sikalastic®/Reemat base layer by means of 1/2” (12.7
mm) nap phenolic resin core roller or brush at the spe-
cified application rate to achieve a uniform and consist-
ent wet mil thickness (reference separate System Data
Sheet). Material can also be squeegee or spray applied,
in which case it should also be backrolled. Allow to cure
completely before applying any subsequent resin layer, if
specified.

Sika Fleece
Apply Sikalastic®-621 TC resin to the primed substrate
surface by means of 1/2” (12.7 mm) nap phenolic resin
core roller or brush to achieve a uniform and consistent
thick, applying approximately 2/3 of the resin required to achieve the specified application rate (reference separate System Data Sheet). Apply Sika Fleece into the wet embedment resin and roll the fleece to achieve partial saturation and full embedment. Fleece shall be cut to conform to substrate transitions and flashing conditions, with typical 3” (76.2 mm) side and 6” (152.4 mm) end reinforcement overlaps. Resin shall saturate the fleece from below. Apply remaining 1/3 of the specified resin quantity to ensure full fleece saturation and an even resin application.

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®-621 TC. 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.

LOCAL RESTRICTIONS

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product’s most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800.933.7452 nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructions for each Sika product for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

ECOLOGY, HEALTH AND SAFETY

Keep container tightly closed. Keep out of reach of children. Not for internal consumption. For industrial use only. For professional use only. For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL NOTES

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product’s most current Product Data Sheet, product
label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika’s Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use. SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer’s sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. No other warranties express or implied shall apply including any warranty of merchantability or fitness for a particular purpose. Sika shall not be liable under any legal theory for special or consequential damages. Sika shall not be responsible for the use of this product in a manner to infringe on any patent or any other intellectual property rights held by others. Sale of Sika products are subject to Sika’s terms and conditions of sale available at http://usa.sika.com/ or by calling 201-933-8800.