PRODUCT DATA SHEET
Sikalastic®-641 Lo-VOC

SINGLE COMPONENT LOW-VOC, LOW ODOR SATURATING RESIN FOR SIKALASTIC® ROOFPRO ROOFING AND WATERPROOFING SYSTEMS

PRODUCT DESCRIPTION
Sikalastic®-641 Lo-VOC is a cold applied, highly elastic, aliphatic, single component, low-odor, low-VOC moisture-triggered polyurethane resin designed for easy application as part of Sikalastic® RoofPro roofing systems.

USES
- Embedment and top resin for Sikalastic® RoofPro systems reinforced with Sika Reemat
- Saturating resin for Sikalastic® RoofPro systems reinforced with Sika Fleece
- Typically applied in Sikalastic® RoofPro Direct, Plaza, and Vegetated systems for both new construction and refurbishment.

CHARACTERISTICS / ADVANTAGES
- Proven technology with over 30 year track record
- Single component - no mixing and ready to use
- Fully reinforced with highly conformable Sika Reemat or Sika® Fleece
- Moisture triggered chemistry that is rapidly weatherproof after application
- Low VOC formula - low Odor
- Highly elastic and crack bridging
- Seamless and fully adhered
- Vapor permeable
- UV resistant and non-yellowing
- Abrasion and chemical resistant
- Adheres to most common construction materials when suitable primer is used

APPROVALS / STANDARDS
- FM Approval Standard 4470 for Class 1 Roof Covers

PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Chemical Base</th>
<th>Moisture triggered Polyurethane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaging</td>
<td>5 gal. (19 L) pail</td>
</tr>
<tr>
<td>Color</td>
<td>White, Pearl Gray, Steel Gray, Mushroom, Copper Green; Custom colors available with minimum order quantity</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>12 months in original, unopened Container</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>11.9 lb./gal. (1.4 kg/cm³)</td>
</tr>
</tbody>
</table>

Product Data Sheet
Sikalastic®-641 Lo-VOC
May 2018, Version 01.01
02091520500000032
Solid content by volume 89 % (ASTM D-2697)
Volatile organic compound (VOC) content 38 g/l (ASTM D-2369-81)

TECHNICAL INFORMATION

Tensile Strength Please refer to Sikalastic®-641 Lo-VOC System Data Sheet (ASTM D-751)
Elongation at Break Please refer to Sikalastic®-641 Lo-VOC System Data Sheet (ASTM D-751)
Tear Strength Please refer to Sikalastic®-641 Lo-VOC System Data Sheet (ASTM D-751)
Resistance to Static Puncture Please refer to Sikalastic®-641 Lo-VOC System Data Sheet (ASTM D-751)

External Fire Performance Class A (ASTM E 108)
Chemical Resistance Most common roofing contaminants, oils, grease, dilute acids and bases
Solar Reflectance 0.88 (white - RAL 9016) (Initial - ASTM C-1549)
Solar Reflectance Index 108 (Initial - ASTM E-1980)

Service Temperature -22–176 °F (-30–80 °C) intermittent

APPLICATION INFORMATION

Coverage

<table>
<thead>
<tr>
<th>Sika Reemat</th>
<th>Sika Fleece</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 sf/gal - 20 mils wet film thickness</td>
<td>24 sf/gal - 66 mils wet film thickness</td>
</tr>
<tr>
<td>69 sf/gal - 23 mils wet film thickness</td>
<td>32 sf/gal - 50 mils wet film thickness</td>
</tr>
<tr>
<td>53 sf/gal - 30 mils wet film thickness</td>
<td>35 sf/gal - 45 mils wet film thickness</td>
</tr>
<tr>
<td>32 sf/gal - 50 mils wet film thickness</td>
<td>53 sf/gal - 30 mils wet film thickness</td>
</tr>
</tbody>
</table>

NOTE: Coverage rates are optimal - coverage rates will vary depending on temperature, surface roughness and porosity, and application technique.

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 % moisture content Test method: Sika®-Tramex meter
No rising moisture according to ASTM (Polyethylene-sheet)

Pot Life Sikalastic®-641 Lo-VOC is designed for fast curing. High temperatures combined with high air humidity will increase the curing process. Thus, material inopened containers should be applied immediately. In opened containers, the material will form a film after 1–2 hours approx. ( at 75 °F (24 °C) and 50 % R.H.)

Waiting / Recoat Times

<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>18 hours</td>
</tr>
<tr>
<td>+50 °F / 50 % r.h.</td>
<td>8 hours</td>
</tr>
<tr>
<td>+70 °F / 50 % r.h.</td>
<td>6 hours</td>
</tr>
</tbody>
</table>

*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®-641 Lo-VOC resin. Reference separate System Data Sheet for specific primer recommendations.

MIXING

No mixing necessary

APPLICATION

Sika Reemat - Base Resin

Apply Sikalastic®-641 Lo-VOC 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 (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” (50.8 mm) reinforcement overlap. Resin shall saturate the Reemat from below. Apply additional Sikalastic®-641 Lo-VOC resin as required to ensure full scrim embedment. Allow to cure completely before applying subsequent resin layers.

Sika Reemat - Intermediate and Top Resin

Apply Sikalastic®-641 Lo-VOC 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 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. Allow to cure completely before applying any subsequent resin layer, if specified.

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 tarps 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.
- Use sunglasses with UV filter when applying highly reflective Sikalastic®-641 Lo-VOC White (RAL 9016).

Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.
• 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®-641 Lo-VO C. 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.

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 the product’s shelf life. User determines suitability of product for intended use and assumes all risks. User’s and/or buyer’s sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. 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 the Terms and Conditions of Sale which are available at https://usa.sika.com/en/group/SikaCorp/termsandconditions.html or by calling 1-800-933-7452.