

PRODUCT DATA SHEET

Sikalastic®-626

Single component, polyurethane roof coating

PRODUCT DESCRIPTION

Sikalastic®-626 is a cold liquid applied, highly elastic, single component, aliphatic, moisture triggered polyurethane roof coating. The chemistry cures extremely fast and is rain resistant within 10 min after application. It is designed for easy application as part of Sikalastic® RoofCoat systems.

USES

- Roof Recover
- Roof Maintenance
- Emergency Roof Repair
- Roof Walkway

CHARACTERISTICS / ADVANTAGES

- Proven technology - over 30 year track record
- Moisture triggered chemistry that is rapidly weatherproof after application
- Resistant to ponding water
- Single component – no mixing, and ready to use
- High elastic and crack-bridging
- Seamless and fully adhered
- Vapor permeable
- UV resistant - non-yellowing

PRODUCT INFORMATION

| | | |
|--|---|------------------|
| Chemical Base | single component, moisture-triggered aliphatic polyurethane | |
| Packaging | 5 gal. (19 L) pail | |
| Shelf Life | 9 months | |
| 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 | |
| Color | White, Pearl Gray, Custom Colors available with minimum order quantity | |
| Density | 10.8 lb./gal. (1294 kg/m3) | |
| Solid content by volume | 71 % | (ASTM D-2697) |
| Volatile organic compound (VOC) content | 209 g/l | (ASTM D-2369-81) |
| Resistance to Static Puncture | > 55 lb/f | (ASTM D-5602) |
| Tensile Strength | 1500 psi | (ASTM D 412) |

| | | |
|--------------------------------|---|---------------|
| Elongation at Break | 300 % | (ASTM D 412) |
| Tear Strength | 238 lbf/in | (ASTM D-624) |
| Solar Reflectance | 86.8 % | (ASTM C-1549) |
| Thermal Emittance | 0.87 | (ASTM C-1371) |
| Solar Reflectance Index | 109 | (ASTM E-1980) |
| Service Temperature | -22–176 °F (-30–80 °C) intermittent | |
| 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 cohesion testing to ASTM G85-94: Annex A5 (1000 hours cyclic exposure) | |

SYSTEM INFORMATION

| System Structure | Layer | RoofCoat 10 | RoofCoat 15 | RoofCoat 20 |
|------------------|----------------|---|----------------------------------|-----------------------------------|
| | Primer | See Priming Guide | See Priming Guide | See Priming Guide |
| | Base Coat | 35 mils wet (one coat only) (~2.2 gal/100 SF) | 25 mils wet (~1.5 gal/100 SF) | 30 mils wet (~1.88 gal/100 SF) |
| | Top Coat | - | 15 mils wet (~1.0 gal/100 SF) | 20 mils wet (~1.25 gal/100 SF) |
| | Total Dry Film | ~24 mils dft | ~28 mils dft | ~35 mils dft |

* Substrates: Concrete or cementitious, metals, woods, single-ply, bituminous, stone. Primer required (see Substrate Priming Guide).

Localized Reinforcement: Sika® Joint Tape SA or Sika® Flexitape Heavy embedded in 40-45 wet mils of Sikalastic®-626 centered over seams, transitions and properly treated cracks and joints.

Note: Coverage rates provided are optimal and are not guaranteed - coverage rates will vary depending on temperature, surface roughness, porosity, aggregate selection, embedment, and application technique.

| | | |
|-----------------------------------|---|---|
| Ambient Air Temperature | 41 °F (5 °C) min. / 95 °F (35 °C) max | |
| Dew Point | Beware of condensation. The substrate and uncured coating must be ≥ 5 °F (3 °C) above dew point. | |
| Substrate Temperature | 41 °F (5 °C) min. / 140°F (60°C) max. | |
| Substrate Moisture Content | ≤ 4 % moisture content Test method: Sika®-Tramex meter No rising moisture according to ASTM (Polyethylene-sheet) | |
| Pot Life | In opened containers the material will form a film after 1 hour approx. (at 75 °F (24 °C) and 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.

Applied Product Ready for Use

| Ambient Conditions | Rain Resistant | Touch Dry | Full Cure |
|--------------------|----------------|-----------|-------------|
| +40 °F / 50 % r.h. | 10 min. | 12 hours | 24 hours |
| +50 °F / 50 % r.h. | 10 min. | 6 hours | 18–24 hours |
| +70 °F / 50 % r.h. | 10 min. | 4 hours | 12–18 hours |

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

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.

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 exposed to sunlight and moisture for prolonged periods
- 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 may occur
- Use sunglasses with UV filter when applying highly reflective white resins
- Do not use for indoor applications
- Precautions should be taken to prevent vapors and/or odors from entering the building/ structure, including but not limited to turning off and sealing air intake vents and throughwallair conditioners, and other means of vapor/odor ingress during 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.
- 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

- permanent staining and subsequent premature failure
- On grade concrete decks should not be covered with Sikalastic® RoofCoat systems
- Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete overlays should not be covered with Sikalastic® RoofCoat systems without additional deck evaluation and subsequent approval by Technical Services
- Do not subject to continuous immersion
- Not recommended for use over ceramic tile

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.

APPLICATION INSTRUCTIONS

Substrate Pre-Treatment

Refer to Priming Guide to select primer for properly evaluated and prepared substrate. Refer to separate primer Product Data Sheet for application methods, coverage rates, cure times and recoat windows. Always allow primer to cure thoroughly before applying detail or base resin layer.

Sikalastic® RoofPro-646 Lo-VOC Priming Guide

Substrates and Primer Options

Concrete *1

Sikalastic® Concrete Primer Lo-VOC
Sikalastic® DTE Primer
Sikalastic® GDC Primer
Sikalastic® EP Primer/Sealer
Sikalastic® EP Primer Rapid

Lightweight Structural Concrete *1

Sikalastic® Concrete Primer Lo-VOC
Sikalastic® DTE Primer
Sikalastic® GDC Primer
Sikalastic® EP Primer/Sealer
Sikalastic® EP Primer Rapid

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Cement, Gypsum Based Roof Boards

Sikalastic® Concrete Primer Lo-VOC

Sikalastic® EP Primer/Sealer

Sikalastic® EP Primer Rapid

Brick, Stone *3

Sikalastic® Concrete Primer Lo-VOC

Sikalastic® EP Primer/Sealer

Sikalastic® EP Primer Rapid

Bituminous Substrate

Asphalt, Bituminous Felts, Bituminous

Coatings, Granulated or Smooth

SBS & Aged APP Cap Sheets *2,3

Sikalastic® EP Primer/Sealer

Sikalastic® EP Primer Rapid

Single Ply PVC Membranes *3

Sarnafil, Sikaplan *3

Sikalastic® EP Primer/Sealer

Hypalon *3

Sika® Bonding Primer

TPO, EPDM *3

Sikalastic® EPDM Primer

Sikalastic® EPDM / TPO Primer Lo-VOC

Roof Tiles (unglazed) *3,4

Sikalastic® EP Primer/Sealer

Sikalastic® EP Primer Rapid

Fiberglass *3

Sikalastic® EP Primer/Sealer

Sikalastic® EP Primer Rapid

Polyurethane Foam - Sprayed or Slab Stock

Sikalastic® EP Primer/Sealer

Sikalastic® EP Primer Rapid

Metal *3

Aluminium, Galvanized, Cast Iron,

Copper, Lead, Brass, Stainless Steel,

Steel, Zinc

Sikalastic® EP Primer/Sealer

Sikalastic® EP Primer Rapid

Pre-Coated Metal *3

Paints & Coatings *3

Aluminized Solar Reflective Coatings *3

Sikalastic® EP Primer/Sealer

Sikalastic® EP Primer Rapid

Wood - Timber & Plywood *5

Sikalastic® EP Primer/Sealer

Sikalastic® EP Primer Rapid

* Consult Sika.

1 New cementitious substrates must be Portland base

and be cured min. 28 days.

2 The presence of volatile bitumen may cause discoloration of Sikalastic® if not properly primed.

3 Surface evaluation and field adhesion testing.

4 Glazed tile consult Sika.

5 Pressure treated lumber consult Sika.

SUBSTRATE PREPARATION

Substrate Evaluation and Evaluation

All substrate surfaces shall be clean, dry, and sound.

Acceptable substrates include: sound concrete, metals,

wood, modified bitumen, mineralized felt, EPDM, Hypalon, TPO, sprayed polyurethane foam, brick and stone, and existing liquid applied membranes.

Concrete and 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 (CSP 2-4 per ICRI guidelines). Loose friable material and weak concrete must be completely removed and surface defects such as voids must be fully exposed.

Repairs to the substrate, filling of joints, voids, and surface leveling must be carried out. Consult Sika for product recommendations based on project requirements. High spots must be removed by grinding or similar method. Outgassing is a naturally occurring phenomenon of concrete that can produce pinholes in liquid-applied materials. The concrete must be carefully assessed for moisture content, air entrapment, and surface finish prior to any roofing work. Particular requirements for priming must also be considered. Installing the primer and membrane either when the concrete temperature is falling or stable can reduce outgassing. It is beneficial, to apply the primer and embedment coat in the late afternoon or evening.

Gypsum and Cement Based Sheathing

Sheathing boards shall be clean, dry and dust free, and shall be properly secured to the structure. Loose, damaged, or contaminated boards shall be removed and replaced.

Brick and Stone

Mortar joints must be sound and preferably flush pointed. Power wash and use biodegradable non-sudsing detergent with clean water rinse as required.

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. Power wash and use biodegradable non-sudsing detergent with clean water rinse as required. All major cracks should be sealed to allow continuity of the Sikalastic® RoofCoat system.

Bituminous Felt

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

Bituminous Coatings

Remove any loose or degraded coatings. Bituminous coatings shall not have sticky or mobile surfaces. Volatile mastic coatings, or old coal tar coatings are not acceptable. Power wash and use biodegradable non-sudsing detergent with clean water rinse as required. Treat blisters by star cutting and removing any

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underlying water. Allow to dry and re-adhere using suitable adhesive.

Metals

Metals must be in sound condition. Ferrous metals should be thoroughly cleaned by grinding or blast cleaning prior to priming (SSPC-SP3 to near-white metal). Non-ferrous metals are prepared by removing any deposits of dust and oxidation and abrading 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 solvent wipe or wash with detergent, rinse and dry. Stainless Steel must be mechanically abraded or ground to create an appropriate anchor profile.

Paints and Coatings

Ensure the existing material is sound and firmly adhered. Remove any loose or degraded coatings. Ensure the surface is clean and free from grease.

Existing Sikalastic® RoofPro Systems

The existing Sikalastic® RoofPro System shall be soundly adhered to the substrate. Clean the membrane using a pressure washer at approximately 140bar (2000 psi) and biodegradable non-sudsing detergent with a clean water rinse. Allow the membrane surface to dry.

Wooden Substrates

Timber and timber based roof decks require additional reinforcement such as the installation of plywood, approved insulation, or cover board. Small timber protrusions and suitable decks may be treated directly, provided that the timber is of exterior quality, e.g. plywood. Fill joints flush with Sikaflex® sealant.

Sikaplan®/Sarnafil® Membranes

Clean the membrane using a pressure washer at approximately 140bar (2000 psi) and biodegradable non-sudsing detergent with a clean water rinse. Allow the membrane surface to dry.

MIXING

Mixing is not required

APPLICATION

Detailing

Non-structural Cracks Up To 1/16"

Detail application not necessary. Apply base coat per below.

Non-structural Cracks Between 1/16" and 1/4"

Rout and seal with Sikaflex®-11 FC sealant. Allow Sikaflex®-11 FC to skin over. Apply 30-35 mil resin layer embedding 3" Sika Flexitape Heavy centered over the crack. Alternatively, allow Sikaflex®-11 FC to cure then apply Sika® Joint Tape SA centered over the crack. Apply base coat per instruction.

Metal Seams, Plywood/Cover Board Joints

Apply 30-35 mil resin layer embedding 3 or 6" Sika® Flexitape Heavy centered over seams. Alternatively, Sika® Joint Tape SA can be applied centered over seams. Apply base coat per instruction.

Transitions Between Dissimilar Materials

Apply appropriate primer for each substrate as indicated in the primer guide. Apply 30-35 mil of Sikalastic®-626 embedding 6" Sika® Flexitape Heavy centered over the edge. Apply base coat per instruction. Vertical to Horizontal Transitions

Apply appropriate primer for each substrate as indicated in the primer guide. Apply a 1/2" cant bead of Sikaflex®-11 FC at the transition from horizontal to vertical. Allow Sikaflex®-11 FC to skin over. Apply 30-35 mil resin layer embedding 6" Sika® Flexitape Heavy centered over the cant bead. Alternatively, allow Sikaflex®-11 FC to cure then apply Sika® Joint Tape SA centered over the cant bead. Apply base coat per instruction.

Applying Base Coat and Top Coat

Mixing not required. Apply Sikalastic®-626 at the coverage rate per instruction to achieve the intended/specified RoofCoat System. Resin can be applied with a 1/2" nap phenolic resin core roller, squeegee or airless spray pump. Allow base coat to cure through before applying the top coat. Use the overcoat instruction as a guide for approximate cure times for various climate conditions. Keep base coat clean and dry then apply the top coat resin layer within 7 days. If the window is exceeded clean with non-sudsing detergent and clean water rinse, and allow to dry then apply Sika® Reactivation Primer. Top coats can be applied by the same means as the base coat. Apply at the coverage rate per instruction to achieve the intended/specified RoofCoat System. Sika recommends using a different color for the base and top coats for quality control.

Seed and Back Roll Option

The Seed and Backroll option is primarily intended for use as maintenance traffic roof walkway applications where enhanced slip resistance is required. Apply Sikalastic®-626 resin at 15 mils wet film thickness to the installed, cured RoofCoat system. While the supplemental resin application is still wet seed with kiln-dried, iron-free aggregate. Back roll the surface to encapsulate the aggregate in the Sikalastic®-626 resin.

Full Broadcast and Seal Option

The Full Broadcast and Seal option is intended for use for applications where both enhanced slip resistance and physical protection of the roofing membrane is required. Apply Sikalastic®-626 resin at 15 mils wet film thickness to the installed, cured RoofCoat system. While the supplemental resin application is still wet broadcast to rejection (full broadcast, beach) with kiln-dried, iron-free aggregate. Remove excess aggregate after cure. Seal with an additional 15 mil coat of Sikalastic®-626.

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

OTHER RESTRICTIONS

See Legal Disclaimer.

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

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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.**

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