BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-626

Single component, cold applied, high elastic, aliphatic, liquid applied polyurethane coating

PRODUCT DESCRIPTION

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

USES

- Effective and cost efficient life cycle extension of existing roofs
- Suitable for cool roofs and solar roof assemblies
- Ideal for roofs displaying complex details and geometry or when accessibility is limited
- Suitable for use for applications such as balconies, terraces, walkways, plazas, and similar applications exposed to foot traffic when provided with a supplemental aggregated or flake surfacing

CHARACTERISTICS / ADVANTAGES

- Proven technology - over 30 year track record
- One component – no mixing, easy and ready to use
- UV resistant - Highly reflective (RAL9016) and resistant to yellowing
- Cold applied - requires no heat or flame
- Cost efficient
- Seamless roof waterproofing membrane
- Can be localized reinforced
- Fast curing - free from rain damage almost immediately on application
- High elastic and crack-bridging - retains flexibility even at low temperatures
- Easily re-coated when needed - no stripping required
- Good adhesion to most substrates- see primer chart
- Vapor permeable - allows substrate to breathe
- Strong resistance to common atmospheric chemicals

PRODUCT INFORMATION

Chemical Base	One-component, moisture-triggered aliphatic polyurethane
Packaging	5 gal. (19 L) metal pail
Color	White (RAL 9016), Pearl Gray, custom colors available with minimum order quantity
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	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)
Tensile Strength	1500 psi	(ASTM D 412)
Elongation at Break	300 %	(ASTM D 412)
Tear Strength	238 lbf/in	(ASTM D-624)
Resistance to Static Puncture	> 55 lb/f	(ASTM D-5602)
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 recomendations. Salt spray to ASTM B117 (1000 hours continuous exposure) and prohesion testing to ASTM G85-94: Annex A5 (1000 hours cyclic exposure)	
Solar Reflectance	86.8 % (white)	(ASTM C-1549)
Thermal Emittance	0.87 (white)	(ASTM C-1371)
Solar Reflectance Index	109 (white)	(ASTM E-1980)
Service Temperature	-22–176 °F (-30–80 °C) intermittent	

SYSTEM INFORMATION

System Structure

	RoofCoat 10	RoofCoat 20
1. Primer	See Priming Guide	See Priming Guide
2. Base Layer: Sikalastic®-626	35 mils wet 45 sf/gal.	35 mils wet 45 sf/gal.
3. Top Layer: Sikalastic®-626		25 mils wet 65 sf/gal.

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

Localized Reinforcement: Sika® Flexitape Heavy embedded in 40-45 wet mils of Sikalastic®-626 or Sika® Joint Tape SA 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 and porosity, aggregate selection and embedment, and application technique.

Dry film thickness

RoofCoat 10	RoofCoat 20
~ 24 mils dft	~ 40 mils dft

Ambient Air Temperature	41 °F (5 °C) min. / 95 °F (35 °C) 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)
Substrate Pre-Treatment	Refer to Priming Guide to select primer for properly evaluated and prepared substrate. Refer to separate primer Product Data Sheet for for application methods, coverage rates, cure times and recoat windows. Always allow primer to cure thoroughly before applying detail or base resin layer.

Sikalastic®-626 Priming Guide

Substrate	Primer options
Concrete[1]	Sikalastic® Concrete Primer Lo-VOC Sika® Concrete Primer Sika® Bonding Primer Sikalastic® DTE Primer Sikalastic® EP Primer/Sealer
Lightweight concrete*[1]	Sikalastic® Concrete Primer Lo-VOC Sika® Concrete Primer Sikalastic® DTE Primer
Brick, stone*[3]	Sikalastic® Concrete Primer Lo-VOC Sika® Concrete Primer Sikalastic® EP Primer/Sealer Sika® Bonding Primer
Bituminous substrate -asphalt, bituminous felts, bituminous coatings, granulated or smooth SBS cap sheets[2,3]	Sikalastic® EP Primer/Sealer
Roof tiles (unglazed)*[3,4]	Sika® Bonding Primer Sikalastic® EP Primer/Sealer
Metal -aluminium, galvanized, cast iron, copper, lead, brass, stainless steel, steel, zinc[3]	Sikalastic® EP Primer/Sealer
Pre-coated metal*[3]	-
Paints & Coatings -paints & coatings*[3] -aluminized solar reflective coatings[3]	- Sikalastic® EP Primer/Sealer

* Consult Sika

[1] New cementitious substrates must be Portland based and be cured min. 28 days.

[2] The presence of volatiles may cause discoloration of Sikalastic® if not properly primed.

[3] Surface evaluation and field adhesion testing.

[4] Glazed tile consult Sika.

Pot Life

Sikalastic®-626 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 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

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 loss of aggregate or 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 PREPARATION

Substrate Evaluation

Concrete and cementitious substrates

New concrete shall be allowed to cure a minimum of 28 days. Concrete shall have a minimum compressive strength of 20.7 MPa (3000 psi) and exhibit a minimum tensile bond strength of 1.4 MPa (200 psi). time. Moist or sheet curing methods should be used, as opposed to the use of curing compounds, which may interfere with the bond of the membrane. Inspect the concrete, including upstands, and 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.

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.

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.

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

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

Metals
Metals must be in sound condition.
Paints and coatings
Ensure the existing material is sound and firmly adhered.

Existing Sikalastic® System
The existing Sikalastic® System shall be soundly adhered to the substrate.

Surface Preparation
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 3-5 per ICRI guidelines). Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed. The amount of embedment coat required may increase over rough or highly porous surfaces.
Repairs to the substrate, filling of joints, blowholes/voids and surface levelling 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 generally beneficial, therefore, 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. Secure loose boards if in sound condition. Damaged or contaminated boards shall be removed and replaced.

Brick and stone
Power wash and use biodegradeable non-sudsing detergent with clean water rinse as required.

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

Bituminous felt
Power wash and use biodegradeable non-sudsing detergent with clean water rinse as required. Treat blisters by star cutting and removing any underlying water. Allow to dry and re-adhere using suitable adhesive.

Bituminous coatings
Remove any loose or degraded coatings.
Metals
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.
Paints/Coatings
Remove any loose or degraded coatings. Ensure the surface is clean and free from grease.
Existing Sikalastic® Systems
Clean the membrane using a water jet at approximately 140 bar (2000 psi) and biodegradeable non-sudsing detergent with clean water rinse. Allow to dry.

MIXING

Mixing is not required

APPLICATION

Detailing and Crack Treatment
Non-structural cracks up to 1/16"- Detail application not necessary. Apply base resin layer per below.
Non-structural cracks between 1/16 inch and 1/4 inch - Rout and seal with Sikaflex® sealant. Apply 40-45 mil resin layer embedded with 3 inch Sika® Flexitape Heavy centered over crack. Apply base resin layer per below.
Cracks and joints between 1/4 ' and 1"- Rout and seal with Sikaflex® sealant. Apply bond breaker tape sufficient to span width of crack or joint followed by 40-45 mil resin layer embedded with 3'' Sika® Flexitape Heavy centered over crack or joint. Apply base resin layer per below.
Joints greater than 1"- Treat as expansion joint. Consult

Sika for recommendations.
Seams and joints (metal, bitumen, single ply) - Apply 40–45 mil resin layer embedded with 3 or 6'' Sika® Flexitape Heavy or Sika® Joint Tape SA centered over seam. Apply base resin layer per below.
Transitions between dissimilar materials - Apply 40–45 mil resin layer embedded with Sika® Flexitape Heavy or Sika® Joint Tape SAcentered over edge. Apply base resin layer per below.

Full surface Application

Mixing not required. Apply base coat of Sikalastic®-626 at a coverage rate of 45sf/gal (~35 mils wft) with a 1/2'' nap phenolic resin core roller (minimum requirement for 10 year material warranty). Material can also be squeegee or spray applied. Allow to cure 12 hours at 70 °F and 50 % R.H. or until tack free before top resin layer. Keep clean and dry and apply top resin layer within 7 days. If window is exceeded clean with non-sudsing detergent and clean water rinse, and allow to dry prior to application of Sika® Reactivation Primer. Apply second coat of Sikalastic®-626 at a coverage rate of 65sf/gal (~25 mils wft) with a 1/2'' nap phenolic resin core roller (minimum requirement for 20 year material warranty).

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 current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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