

PRODUCT DATA SHEET

Sikalastic® Clearglaze

Liquid applied single component transparent Polycarbonate/Polyurethane coating

PRODUCT DESCRIPTION

Sikalastic® Clearglaze is a clear, single component, high solids, polycarbonate aliphatic polyurethane-based sealer for applications where water-tightness and preservation of the original substrate appearance is required.

USES

- Skylights and clerestories
- Porous stone, decorative aggregate panels, brick work, and terracotta
- Reinforced concrete subjected to carbonation
- Decorative aggregate surfacing on balconies and terraces

CHARACTERISTICS / ADVANTAGES

- Provides transparent watertight protection
- Resists freeze-thaw damage
- Effective sealer for decorative aggregate surfacing
- Carbonization barrier
- Glass shatter resistance
- Moisture-triggered cure limits effects of inclement weather during application
- Non-foaming urethane chemistry

PRODUCT INFORMATION

Chemical Base	Moisture Triggered Polycarbonate/Polyurethane	
Packaging	5 L pail (1.32 gal.)	
Shelf Life	12 months	
Storage Conditions	Store dry at 35–86 °F (2–30 °C). Condition material to 50–77 °F (10–25 °C) before using for ease of application.	
Color	Clear/Transparent	
Solid content by volume	59%	(ASTM D-2697)
Volatile organic compound (VOC) content	360 g/l	(ASTM D-2369-81)

TECHNICAL INFORMATION

Tensile Strength	362 psi
Elongation at Break	250 %
Tear Strength	2,610 psi
Service Temperature	-22–176 °F (-30–80 °C) intermittent
Permeability to Water Vapor	0.768 Perms
Chemical Resistance	Resistant to 10 % solutions of mineral acids, most alkalies, acid rain and detergents. Some oils and solvents may soften the surface.

APPLICATION INFORMATION

Coverage	120 ft ² /gal - 15 mils wet film thickness - balcony and terrace aggregate sealing; 80 ft ² /gal - 20 mils wet film thickness - general waterproofing and sealing; 40 ft ² /gal - 40 mils wet film thickness - anti-carbonization/anti-shatter coating; 32 ft ² /gal - 50 mils wet film thickness - Sika® Flexitape saturation; 20 ft ² /gal - 80 mils wet film thickness - Sika® Reemat Standard saturation (two 40 mil coats).
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	Sikalastic® Clearglaze is designed for fast curing. High temperatures combined with high air humidity will increase the curing process. Material in open containers should be applied immediately. 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	Allow primer to cure completely prior to applying coating. Allow coating application to cure completely prior to applying subsequent coating. 24 hours at 36 °F. 8 hours at 68 °F.

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.

USES

- Do not apply on substrates with moisture content greater than 4 % by weight, measured by Tramex® Concrete Moisture Encounter Meter
- Do not thin with additional solvents
- Do not store materials outdoors directly exposed

to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements

- Existing substrate/primer/coating surface must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate/primer/coating to dry after rain or inclement weather, as there is the potential for bonding problems
- 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, through-wall air conditioners, and other means of vapor/odor ingress during application and cure.

ENVIRONMENTAL, HEALTH AND SAFETY

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

General: Ensure surface is clean, sound and dry. It is important to make sure that all organic growth (mildew, moss, lichens, algae, etc.) be completely removed prior to coating application. Sikalastic® Clearglaze is typically self-priming, but the use of a Sikalastic® primer appropriate for the substrate may be required to achieve adequate adhesion.

Asbestos Cement and Asbestos-free Equivalents: Always ensure strict compliance with Health and Safety requirements when working with asbestos-containing materials. Extra care must be taken when cleaning since any shading/scuffing of the surface will show through the coating.

Brick, Terra Cotta, Block and Stone: Apply coating direct to clay bricks, cement bricks and blocks, terra cotta, and decorative stone.

Cementitious Materials: Concrete and stucco must be a minimum of 14 days old before application. An adhesion test is recommended to verify adhesion, particularly before applying to highly porous substrates such as aggregate panels.

Glass Glazing: Ensure surfaces are clean and degreased before application. Apply to plain and reinforced glass, leaded windows, glazing strips and roof lights. A reduction in optical clarity is to be expected. Sikalastic® Clearglaze is not intended to recoat painted metal frames, as the existing paint may discolor and delaminate.

Fiberglass Resin/Plastic Glazing: An adhesion test is recommended to verify the adhesion and confirm compatibility. Remove any oxidized layers. A reduction in optical clarity is to be expected. Sikalastic® Clearglaze is not intended to recoat painted metal frames, as the existing paint may discolor and delaminate.

Metals: Ensure surfaces are clean, rust-free, and degreased before application. An adhesion test is recommended to verify adhesion. Remove field-applied paints and coatings for best performance.

Slate and Tile: Apply coating direct to slate and tile roofs to alleviate water absorption.

MIXING

Mixing is not required.

APPLICATION

Apply by soft nylon or natural bristle brush, or by medium pile sheepskin roller, phenolic resin core roller, or foam roller at the recommended rate. Rough, porous, absorbent surfaces will require the use of additional coating. Always allow any primer and Sikalastic® Clearglaze coats to dry/cure thoroughly before applying the following coat. Coating will generally require an overnight cure, although under optimal conditions (higher temperatures and higher relative humidity) two coats in one day may be possible. Do not thin, brush out, or overwork. Best results are obtained when the full mil thickness is applied at one time and limited work is performed to the coating. When applying multiple coats, apply the following coat at right angles to the application of the previous coat.

Removal

Remove wet coating with acetone, xylene or cellulose thinners and a clean cloth. Do not use alcohol-containing solvents. Once cured, coating can only be removed by mechanical means. Strictly follow solvent manufacturer's warnings and instructions for use.

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

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