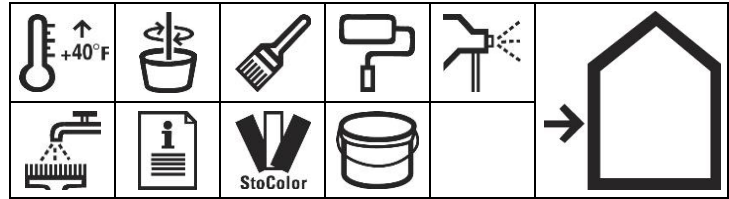


StoColor[®] Silcolastic

80222 StoColor Silcolastic



Technical Data

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
Crack Bridging	ASTM C-1305	at -15°F (-26°C)	Pass, No Cracking
Tensile Strength psi (MPa)	ASTM D-412		250 (1.72)
Elongation at Break (%)	ASTM D-412		315
Flexibility, Mandrel Bend % Elongation	ASTM D-522	at 70°F (21°C) at -14°F (-26°C)	> 32 (no crack) > 32 (no crack)
Moisture Resistance	ASTM D-2247	14 day exposure	Pass, No Deterioration
Mold Resistance	ASTM D-3273	90 day exposure	Pass, No Mold Growth
Adhesion to Concrete psi (MPa)	ASTM D-4541		320 (2.20)
Water Vapor Permeability perms (ng/Pa·s·m ²)	ASTM D-1653 Wet-cup method ASTM E-96 Wet-cup method	1 coat 2 coats 1 coat 2 coats	40-60 (2250-3375) 40-50 (2250-2810) 50-60 (2810-3375) 40-50 (2250-2810)
Carbon Dioxide Diffusion Resistance Coefficient	EN-1062		491,000
Carbon Dioxide Diffusion Resistance m	EN-1062		142
Resistance to Wind Driven Rain, ounces (g)	ASTM D-6904 TTC-555-B	Weight Gain	Pass, < 3.2 ounces < 90 g
% Solids (by weight)	ASTM D-2698		60
% Solids (by volume*)	ASTM D-2698		60
VOC (g/L)	This product complies with US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC emission standards for architectural coatings. VOC less than 50 g/L.		

Typical values for material cured at 73°F (23°C) and 50% R.H.

Features Benefits

1 Silicone Emulsion	High elongation; resists dirt pick up and mildew growth better than standard acrylic coatings
2 Flexible	Bridges hairline cracks; does not age harden
3 Weatherproof	Repels water; stable in hot and cold temperatures; protects against ultraviolet light
4 High Vapor Permeability	Ideal for recoating painted substrates; allows substrate to breathe naturally; resists blisters caused by trapped water vapor
5 Easily Sprayable	Increases job-site productivity
6 Cleans up with water	Tools can be reused; no hazardous solvents needed; environmentally friendly
7 Low VOC	Safe for workers and the environment

StoColor Silcolastic is an elastomeric, silicone-emulsion, decorative coating. It is weatherproof, dirt-resistant, and mildew-resistant; and bridges hairline cracks. Use it for protecting vertical concrete, stucco, EIFS, masonry, or previously acrylic-coated smooth/textured surfaces. Its smooth finish is roller-applied or spray applied in a variety of colors, making it an easy way to quickly improve a substrate's appearance.

Coverage

95-125 ft² per gallon (2.2-2.8 m² per liter) per coat, applied at 14-18 mils (0.36 to 0.46 mm), wet to achieve 8.4 – 10.8 mils DFT per coat.

445-585 ft² (39-49 m²) per pail for a single coat applied at 14-18 mils (0.36 to 0.46 mm) per coat, wet to achieve 8.4 – 10.8 mils DFT per coat.

Coverage may vary depending upon application technique and surface condition, including smoothness and porosity.

Packaging

5 gallon pail (19 L).

Color

800 standard Sto colors.

Shelf Life

12 months in original, unopened container.

Storage

Store in a dry area, between 50°F (10°C) and 85°F (29°C). Protect from extreme heat [90°F (32°C)], freezing, direct sunlight.

StoColor Silcolastic

Surface Preparation

All surfaces must be structurally sound, clean, dry, and free of frost and surface contamination such as dust, dirt, salts, grease, oils, efflorescence, mold, algae, mildew, and any other contamination that may affect adhesion. Use appropriate repair methods for the substrate to repair pitting, spalls, cracks, peeling, blistering, delamination, weak surface conditions such as laitance, water damage, or other defects that may exist.

Pressure washing is a recommended means of surface preparation. Follow necessary safety precautions and adjust pressure to avoid damage to the underlying substrate or substrate condition. For mold, algae, and mildew removal, treat surfaces with a commercial mildew removal and/or wash product carefully following manufacturer's application and safety directions. Rinse thoroughly with clean water, and allow a minimum of 24 hours to dry thoroughly.

Use at a preconditioned temperature of 70 ± 5°F (21 ± 3°C). Mix product for 3 minutes

using a slow-speed drill and a mixing paddle. Mix thoroughly to a uniform consistency.

Application

Apply only to sound and clean, dry, properly prepared, frost-free surfaces. Do not apply over damp surfaces or during rain, hail, or snow events or if rain, hail, or snow is imminent. Apply in two uniform coats by brush, roller or with proper spray equipment to prepared/primed substrate. Apply coating in a continuous application, always working from a wet edge or architectural break to eliminate cold joints. Back roll open texture surfaces such as concrete masonry. Achieve 8.4 – 10.8 DFT per coat. Allow sufficient time for drying between coats.

IMPORTANT

ALWAYS check color for proper match. If color does not match, STOP-call your Sto representative. Minor shade variations may occur from batch-to-batch (refer to batch number on pail). Avoid installing separate batches side-by-side and avoid application in direct sunlight. Avoid installing new coating adjacent to weathered or aged coating. Sto Corp. will not be responsible for shade or color variation from batch-to-batch, variation caused by application or substrate deficiencies, or fading resulting from natural causes such as weather. See Tech Hotline Nos. 0694-C, 0893-EC and 1202-CF for helpful tips on prevention of color problems.

Prevent or repair leaks from roofs, parapets, windows, sealants, or other components of construction, and prevent accumulation of water inside the wall assembly during or after construction. Water accumulation behind the coating could cause damage to the coating or underlying construction.

Prepare a job site mock-up of the final coating assembly to verify aesthetics and adhesion to properly prepared/primed surfaces as specified by design professional or owner's quality assurance agent.

Substrates and Recommended Primers:

Substrate	Min. Age	Primer	WFT (DFT)
Concrete	28d	StoPrime™ Hot	5 (2.1)
Stucco	7d	StoPrime Hot	5 (2.1)
CMU	28d	StoPrime	6-8 (2.7-3.7)
EIFS	N/A	StoPrime Sand	4-6 (1.8-2.7)
Painted	N/A	Depends on paint & its condition. Test to determine best primer	

Note: StoPrime Conditioner is recommended as a surface conditioner and supplemental component for chalking substrate conditions. Selection of primer may vary depending on actual substrate conditions such as pH, absorption, texture, and desired aesthetic look.

Curing/Drying

Dries within 24 hours under normal drying conditions [70°F (21°C), 50% RH]. Drying time varies with temperature/humidity and surface conditions. Protect installed product from rain, freezing, and continuous high humidity until completely dry.

Clean Up

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

Limitations

- Do not use to bridge cracks greater than 1/32 inch (0.8 mm). For cracks 1/32 inch (0.8 mm) and greater, first treat crack with Sto Flexible Crack Filler. Allow to cure prior to coating with StoColor Silcolastic.
- Do not apply over silicone sealants.
- Protect installed materials from rain, freezing and continuous high humidity until completely dry.
- Apply when ambient and surface temperatures are 40°F (4°C) and rising.
- Do not apply if the surface temperature is less than 5°F (2.8°C) above the ambient dew point temperature.
- Do not apply in freezing conditions or during precipitation.
- Do not overcoat with solvent-based materials.
- Do not use below grade, on horizontal surfaces, or in areas of ponding water.
- Efflorescence of portland cement-based substrates such as concrete, stucco, and concrete masonry sometimes causes staining or discoloration on the surface of applied coatings. Efflorescence is neither caused nor prevented by the Sto coating.

Health And Safety

WARNING!

Causes eye and skin irritation.

Precautionary Statement

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention. Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Store locked up.

Spills

Collect with suitable absorbent material such as cotton rags.

Disposal

Dispose of in accordance with local, state or federal regulations.

Warning

KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Safety Data (SDS) Sheet on www.stocorp.com for further health and safety information.

LIMITED WARRANTY

This product is subject to a written limited warranty which can be obtained free of charge from Sto Corp.

Refer to Sto Specifications for more complete information on proper use and handling of this product.

Sto Corp.
3800 Camp Creek Parkway
Building 1400, Suite 120
Atlanta, GA 30331

S155-80222
Revision: A5.0
Date: 08/2018

Tel: 404-346-3666
Toll Free: 1-800-221-2397
Fax: 404 346-3119

www.stocorp.com

Attention

This product is intended for use by qualified professional contractors, not consumers, as a component of a larger construction assembly as specified by a qualified design professional, general contractor or builder. It should be installed in accordance with those specifications and Sto's instructions. Sto Corp. disclaims all, and assumes no, liability for on-site inspections, for its products applied improperly, or by unqualified persons or entities, or as part of an improperly designed or constructed building, for the nonperformance of adjacent building components or assemblies, or for other construction activities beyond Sto's control. Improper use of this product or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to this product, and to the structure of the building or its components. **STO CORP. DISCLAIMS ALL WARRANTIES EXPRESSED OR IMPLIED EXCEPT FOR EXPLICIT LIMITED WRITTEN WARRANTIES ISSUED TO AND ACCEPTED BY BUILDING OWNERS IN ACCORDANCE WITH STO'S WARRANTY PROGRAMS WHICH ARE SUBJECT TO CHANGE FROM TIME TO TIME.** For the fullest, most current information on proper application, clean-up, mixing and other specifications and warranties, cautions and disclaimers, please refer to the Sto Corp. website, www.stocorp.com.