

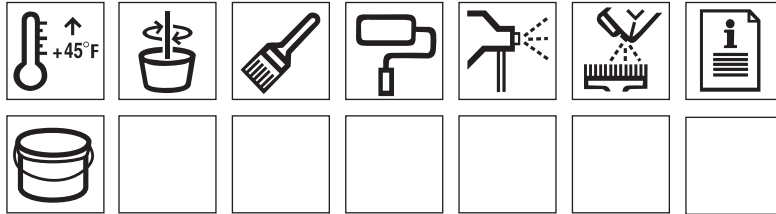
# Sto Decorative Top Coat

# CR679

Division 9

1. pedestrian deck coating
2. waterproofing membrane
3. flexible, fluid-applied

**polyurethane-based, using proprietary StoPur technology**



## Technical Data

REPORT	TEST METHOD	TEST RESULTS
<b>Hardness, Shore 'A'</b>	ASTM D-2240	90 ± 5
<b>Tensile Strength (psi)</b>	ASTM D-412	4500
<b>Ultimate Elongation (%)</b>	ASTM D-412	200
<b>Tear Resistance, Die C (lbs/inch)</b>	ASTM D-624	300
<b>Water Vapor Permeability (U.S. perms)</b>	ASTM E-96 Procedure B	0.01
<b>Abrasion Resistance</b>	SC-17 wheel, 1000 cy w/ 1000 cy w/1000 gr wt	0.002 inch (.051 mm) loss
<b>Weather Resistance</b>	ASTM D-822	no chalk @ 2000 hrs
<b>Color</b>		non-yellowing clear

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

Note: To convert psi to megapascal (MPa) multiply by 0.0069. To convert U.S. perms to g/Pa-s-m<sup>2</sup> multiply by 5.72 x 10<sup>9</sup>.

To convert lbs./inch to N/Lm multiply by 1.75.

*Sto Decorative Top Coat is a VOC-compliant, polyurethane-based, flexible waterproof coating for protecting and enhancing the appearance of concrete decks. Sto Decorative Top Coat is an aliphatic decorative clear topcoat/sealer, that is fluid-applied and cures to a durable rubber-like membrane. Use it to waterproof, seal, and protect exterior above grade concrete decks such as patios, balconies, sun decks, lanais, terraces and other areas exposed to pedestrian traffic. The system's ability to utilize optional colored quartz broadcast additives provides additional aesthetic and design alternatives.*

### Coverage

100-125 ft<sup>2</sup>/gal (10-13 m<sup>2</sup>/3.8 L) at 12-15 wet mils (0.38 mm).

### Packaging

5 gal pail (19 L)

### Shelf Life

12 months in original unopened, properly stored container.

### Storage

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

Features	Benefits
<b>1 Polyurethane-based</b>	Provides a durable rubber-like membrane, internal flexibility
<b>2 One component</b>	Ready to use; no components to mix; easy to apply; reduces waste
<b>3 Flexible</b>	Bridges hairline cracks; accommodates normal substrate movement
<b>4 Abrasion-resistant</b>	Protects concrete against wear from heavy pedestrian traffic
<b>5 Chloride ion barrier</b>	Protects embedded reinforcing steel against corrosion
<b>6 Waterproof</b>	Repels water; protects concrete against freeze-thaw damage
<b>7 Clear aliphatic topcoat</b>	Non-yellowing
<b>8 Colored quartz option</b>	Aesthetically pleasing; broadcast colored quartz beads increases design options



## Surface Preparation

### New and Existing Concrete

Concrete must be at least 28 days old and have a 3500-4000 psi [24.2-27.6 MPa] compressive strength. Concrete cast on top of precast panels must have saw-cut joints that correspond directly to the joints in the precast panels. All surfaces should slope to the drains to prevent ponding water. Repair voids, spalls and shallow areas with a compatible repair mortar. Consult Sto Technical Services for a list of approved repair mortars. Lightly abrade concrete surfaces using high-pressure (>3000 psi [20.7 MPa]) water-blasting or sand-blasting for new concrete and sand-blasting or shot-blasting for existing concrete. Make sure surfaces are sound, clean and free of all bond-inhibiting materials including oil, grease, dirt, dust and laitance. All surfaces must be dry (less than 4% moisture content) prior to application.

### Cracks

Cracks greater than  $\frac{1}{16}$  inch (1.5 mm) wide must be saw-cut  $\frac{1}{4}$  inch wide by  $\frac{1}{4}$  inch deep (6 mm x 6 mm). Remove dust and debris from the crack and blow clean using oil-free compressed air. Cracks must be dry. Fill the saw-cuts with a quality polyurethane traffic bearing joint sealant (per manufacturer's recommendations), and allow to cure thoroughly. Uncured sealant will affect the cure of the coating. DO NOT USE polysulfide sealants.

## Application

### Decorative Top Coat

Use Sto Decorative Top Coat at a preconditioned temperature of  $70 \pm 5^\circ \text{F}$  ( $21 \pm 3^\circ \text{C}$ ). Apply with a squeegee or roller using solvent-resistant roller covers with a  $\frac{1}{2}$  -  $\frac{3}{4}$  inch (13-19 mm) nap. Apply Sto Decorative Top Coat at a rate of 125 ft<sup>2</sup> per gallon (12 m<sup>2</sup> per 3.8 L) or as needed to achieve 12 wet mils (0.38 mm).

### In conjunction with broadcast aggregate:

Immediately broadcast quartz or colored aggregate into the wet coating. Apply granules in an even layer, so as to completely cover the Base Coat. Do not leave any of the Base Coat exposed. Allow the Top coat to cure overnight. Remove excess granules with a vacuum or broom. Using a  $\frac{1}{2}$  -  $\frac{3}{4}$  inch (13-19 mm) nap roller, apply a second coat of Decorative Top Coat at a rate of 100 to 125 ft<sup>2</sup> per gallon (30-37 m<sup>2</sup> per 3.8 L) to achieve

## Limitations

- Apply only when surface and ambient temperatures are  $45^\circ \text{F}$  ( $7^\circ \text{C}$ ) and rising.
- Do not apply coatings to wet, damp, frosty or contaminated surfaces.
- Do not apply if rain is imminent within 8 hours of completion.
- In the event of an existing coating or if deck has a between-slab membrane, consult Sto Representatives.
- Do not apply over building, isolation or expansion joints.
- Not for use on grade.

### Joints

Remove all loose and deteriorated materials by water-blasting, sand-blasting, mechanically wire-brushing or grinding. Make sure joints are sound, clean and free of all bond-inhibiting materials including oil, dust, dirt, laitance, and old sealant, paints or coatings. Install a quality polyurethane traffic bearing joint sealant (per manufacturer's recommendations), and allow to cure thoroughly. Uncured sealant will affect the cure of the coating. DO NOT USE polysulfide sealants.

### Transitions/Connections

Prepare transitions and connections as instructed for new and existing concrete. Install a quality polyurethane traffic bearing joint sealant (per manufacturer's recommendations) at all horizontal and vertical transitions and connections including walls, columns, curbs, and pipes. Tool sealants to form a 1 inch (25 mm) wide 45° cant and allow to cure thoroughly. Uncured sealant will affect the cure of the coating. DO NOT USE polysulfide sealants.

12 to 15 wet mils (0.38 mm). Apply Decorative Top Coat evenly and do not puddle to avoid creating shiny spots and reducing non-slip properties. ALLOW THE TOP COAT TO CURE FOR 48 HOURS BEFORE OPENING TO PEDESTRIAN TRAFFIC.

### Curing/Drying

Allow to cure minimum of 48 hours before opening to light foot traffic. Cure time is significantly slower in cool weather which may require extended curing time before opening to foot traffic.

### Clean Up

Clean tools and equipment with a suitable solvent (toluene, xylene or isopropyl alcohol for urethanes); immediately after use. Cured material can only be removed mechanically.

## How It's Used

Sto Decorative Top Coat is a fluid-applied, aliphatic urethane coating designed to waterproof, seal, and protect exterior above grade concrete exposed to pedestrian foot traffic where aesthetic requirements are designed into the system. Apply it easily by spray or roller. Colored quartz beads or sand may be broadcast over surface for additional design decorative options.

## Health And Safety

### Health Precautions

This product contains toluene diisocyanate, which is subject to reporting by SAR 313. The product contains a chemical known to the state of California to cause cancer. Exercise care when handling.

### Safety Precautions

Use adequate ventilation. Safety goggles and gloves are recommended when handling this product. Remove contaminated clothes immediately.

### First Aid

SKIN CONTACT: Wash immediately with soap and water. If skin reddening, rash or irritations occur, seek medical attention.

EYE CONTACT: Flush within 15 minutes of contact with running water while holding the eyes open.

RESPIRATORY PROBLEMS: If respiratory irritation occurs, go to fresh air. Flood work areas with fresh air if irritation continues, seek medical attention.

INGESTION: Contact medical help immediately.

Untrained personnel should not attempt to administer first aid.

HYGIENE: Wash hands immediately after use. Wash exposed clothing before reuse.

### Spills

Collect with absorbent material such as cotton rags. Uncured material may be removed with suitable solvent (toluene, xylene or isopropyl alcohol)

### Disposal

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

### Warning

KEEP CONTAINERS CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Material Safety Data Sheet 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., 3800 Camp Creek Parkway, Building 1400, Suite 120, Atlanta, GA 30331; Tel: 404-346-3666; Fax: 404-346-3119

### Sto Corp.

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