

PRODUCT DATA SHEET

Sika Thorocoat®-400 DOT

WATER-BASED, HIGH-BUILD, 100% ACRYLIC WATERPROOF COATING FOR DOT APPLICATIONS

PRODUCT DESCRIPTION

Sika Thorocoat®-400 DOT is a water-based, high-build, 100% acrylic waterproof coating for above-grade concrete, masonry, stucco and EIFS.

USES

- Exterior
- Vertical and overhead surfaces
- Above grade
- Protecting and waterproofing

Substrates

- Concrete
- Masonry
- Cement plaster
- Stucco
- EIFS
- Over Existing Coatings

CHARACTERISTICS / ADVANTAGES

- Available in custom state DOT colors
- Resists wind-driven rain, helps prevent water penetration into the substrate
- Breathable to allow water vapor to escape • Excellent adhesion, bonds securely to substrate for long-term durability
- UV resistance provides excellent color retention for a long lasting attractive finish
- Excellent hiding power • Fine texture helps improve aesthetics of irregular substrates
- Effective carbon dioxide diffusion barrier, protects embedded steel from corrosion
- Freeze/thaw resistant, suitable for cold climates
- Low VOC content for broad compliance across all regions

PRODUCT INFORMATION

Packaging	5 gallon (18.9 L) pails	
Shelf Life	18 months when properly stored	
Storage Conditions	Store in unopened containers in a clean, dry area. Keep from freezing.	
Density	13.6 lbs/gal (1.63 kg/L)	ASTM D 1475
Viscosity	117-125 KU	ASTM D 562 (Stormer)
Solid content by mass	68.7%	ASTM D 5201
Solid content by volume	49.1%	ASTM D 5201

TECHNICAL INFORMATION

Abrasion Resistance	Passed at 3,000 L	FTMS 141a, Method 6191
Impact Strength	2.7 N/m. Passed	FTMS 141a, Method 6191
Flexural Strength	Passes 1" mandrel	FL DOT Section 400-15.2.6.7g
Thermal Compatibility	Passed 20 cycles	ICBO Method, modified
Behavior after Artificial Weathering	5000 hrs. Passes	ASTM G 23, Type D
Microbiological Resistance	Passes Fungus-growth resistance	TT-P-29g
Permeability to Water Vapor	13	ASTM D 1653
Slant Shear Strength	Passes	ASTM D 3359
Freeze-Thaw Stability	Passed, 50 cycles	FL DOT Section 400-15.2.6.7a
Salt spray resistance	300 hrs. Passes	ASTM B 117
Resistance to wind-driven rain	Passes	TT-C-555B
Coverage	60–80 ft ² /gal (1.5–2.0 m ² /L) per coat when applied on porous substrates 80–100 ft ² /gal (2.0–2.5 m ² /L) per coat when applied on dense substrates Sika always recommends applying a test area to determine actual coverage. Apply in an unstretched, uniform manner.	

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

1. Thorocoat 400 DOT is meant to be applied as a two-coat system, achieving a total dry-film thickness (DFT) of 12–16 mils (0.3–0.4 mm).
2. Apply Thorocoat 400 DOT by brush, spray, roller, or spray-and-backroll.
3. Maintain proper uniform wet-film thickness (WFT) during application to ensure the performance characteristics desired (see yield rates section).
4. Always work to a natural break and maintain a wet edge during application.
5. For uniformity of color and texture, application techniques must be consistent throughout the project.

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

1. Surfaces should be clean and sound and free of all bond-inhibiting contaminants.
2. Concrete substrates should be fully cured.
3. Repair any holes, spalled and damaged concrete with appropriate Sika repair materials. Allow appropriate cure time prior to coating.
4. Remove any protruding concrete accessories and smooth out any surface irregularities.
5. High-pressure power wash surface (or abrasive blast on hard, dense surfaces) to create a profile of SP 3, per ICRI Guide 310.2.
6. Some stains may require chemical removal. Neutralize any cleaning compounds used and rinse with clean water.
7. Check adhesion of old coatings according to ASTM D 3359, Measuring Adhesion by Tape Test Method A.
8. Remove any blisters or delaminated areas and sand edges to smooth rough areas and provide transition to old paint areas.
9. Treat cracks greater than 1/32" with Sika Thorolastic 748. Treat cracks larger than 1/4" as expansion joints and fill with appropriate Sika sealant.
10. New CMU must have a base coat of Sika Thorolastic 749

MIXING

1. Prior to use, mix Sika Thorocoat 400 DOT at slow speed with drill and mixing paddle to ensure uniform color and aggregate disbursement and to minimize air entrapment.
2. In multi-pail applications, mix the contents of each new pail into the partially used previous pail to ensure color consistency and smooth transitions from pail to pail.

APPLICATION

ROLLER

1. Use a quality $\frac{3}{4}$ –1 $\frac{1}{4}$ " nap roller cover.
2. Completely saturate the roller and keep it loaded with the coating to build the required mils. Never dry roll.
3. Cross roll, maintaining a wet edge, to achieve uniform thickness. Backroll in one direction for consistent appearance.

SPRAY

1. Equipment is available for spraying Sika Thorocoat 400 DOT. Use a heavyduty sprayer designed for the application of coatings that contain sand particles. Contact equipment manufacturer for further recommendations.
2. Backrolling in one direction after spray application is recommended to achieve uniform texture and film thickness.

BRUSH

1. Application by brush is recommended only for small inaccessible areas, e.g., on touch-ups.
2. Use only a nylon brush.

CLEANING OF TOOLS

Clean all tools and equipment immediately with water. Cured material may be removed by mechanical means.

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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