BUILDING TRUST

PRODUCT DATA SHEET

Sika Thorocoat®-350 Aquasol

(formerly MProtect C 350)

WATER-BASED, 100% ACRYLIC, SMOOTH, EASY-CLEANING, WATERPROOF COATING

PRODUCT DESCRIPTION

Sika Thorocoat®-350 Aquasol is a 100% acrylic, smooth, waterproof coating engineered to reduce dirt pickup and to be cleaned via rainwater runoff or a water rinse.

USES

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

Substrates

- Concrete
- Masonry
- Stucco
- EIFS
- Over existing coatings

CHARACTERISTICS / ADVANTAGES

- Hydrophobic properties of coating repel water and dirt for long-lasting appearance.
- Dirt-resistant nature of coating helps reduce exterior maintenance costs.
- 100% acrylic formulation provides long-term durability and weather resistance.
- Breathable to permit water vapor to escape.
- Excellent adhesion to concrete and existing coatings results in tight, long-lasting bond.
- UV resistant for excellent color retention.
- Low VOC content for broad compliance in all regions.

PRODUCT INFORMATION

Chemical Base	Sika Thorocoat®-350 Aquasol contains water, acrylic emulsion, fillers and other proprietary ingredients	
Packaging	5 gallon (18.9 L) pails Available in Pastel, Medium, Ultradeep, and Neutral Tintbases Pre-tinted material is available. Contact your Sika representative for further information.	
Shelf Life	24 months when properly stored	
Storage Conditions	Store in unopened containers in a clean, dry area. Keep from freezing.	
Density	11.8 lbs/gal (1.41 kg/L)	(ASTM D 1475)
Solid content by volume	41%	(ASTM D 5201)

TECHNICAL INFORMATION

Resistance to Weathering	**Dirt Pickup Resistance** >90% retention of reflectance	(Miami/Dade TAS 14395 section 7.8 (modified))
	Dirt Collection Dc Index = 0.98 at 61 days, 45° angle, Southern exposure	(ASTM D 3719)
Behavior after Artificial Weathering	No deleterious effect after Xenon Arc, Type B for 2,000 hrs	(ASTM G 155)
Microbiological Resistance	**Algae Resistance** No growth	(ASTM D 5589)
Permeability to Water Vapor	20 perms, Wet Cup test	(ASTM E 96)
Adhesion in peel	500 psi at 28 days	(ASTM D 4541)
Low Temperature Bend	7 wet mils, ½" mandrel at 40 °F (4 °C) and 70 °F (21 °C)	No cracking (ASTM D 522)
Microbiological Resistance	**Fungus Resistance** No growth after 30 days of exposure	(ASTM D 5590)
Resistance to wind-driven rain	No water penetration	(ASTM D 6904)
	Average Weight Gain	(ASTM D 6904)
	One coat with primer: <0.05 lbs (<0.80 oz)	
	Two coats without primer: <0.04 lbs (<0.65 oz)	

APPLICATION INFORMATION

Coverage

Rate ft²/gal/coat (m²/L)*	Wet Film mils (mm)	Dry Film mils (mm)
180–280 (47.55–73.97)	5–8 (0.13–0.20)	2–3.3 (0.05–0.08)

*Coverage rates are approximate and will vary with surface porosity and application technique.
For applications requiring waterproofing, apply two coats, or use it as a topcoat over a base coat of
Sikagard® HB 200 or Sika Thorocoat®-400.

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.

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

- Do not apply when the substrate or ambient temperature is 40 °F (4 °C) or below or is expected to fall below 40 °F (4 °C) within 24 hours after application.
- Do not apply if rain is expected within 24 hours of application.
- Do not use it on interior applications, below-grade applications, or for immersion service.
- Not intended for use as a horizontal traffic-bearing coating.
- Sika Thorocoat®-350 Aquasol is a thin film material. Hide can be difficult when coating over certain colored sealants. Sealants should be tinted close to the Sika Thorocoat®-350 Aquasol final color to prevent over-application of the material which can lead to cracking.
- Apply a 4 ft x 4 ft (1.2 m x 1.2 m) test area to verify acceptable color and adhesion before proceeding with any project. The test method for measuring adhesion is ASTM D 3359, Measuring Adhesion by Tape, Method A. On the 0–5 scale, a minimum adhesion rating of 4A is required.
- Color formulas containing organic colorants are

susceptible to fading.
- Do not thin the material.
- For professional use only; not for sale to or use by the general public.
- Make certain the most current versions of the product data-sheet and SDS are being used.
- Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

SUBSTRATE PREPARATION

- Surfaces should be sound, clean, and free of all bond-inhibiting contaminants.
- Concrete substrates should be fully cured.
- Repair any holes, and spalled and damaged concrete with appropriate Sika repair materials. Allow appropriate cure time prior to coating.
- Remove any protruding concrete accessories and smooth out any surface irregularities.
- High-pressure power wash surface (or abrasive blast on hard, dense surfaces) to create a profile of CSP3, per ICRI Guide 310.2.
- Some stains may require chemical removal. Neutralize any cleaning compounds used and rinse with clean water.
- Check the adhesion of old coatings according to ASTM D 3359, Measuring Adhesion by Tape Test, Method A.
- Remove any blisters or delaminated areas and sand edges to smooth rough areas and provide a transition to old paint areas.
- Treat cracks greater than 1⁄32" with Sika Thorocoat®-746 Knife Grade or SikaWall® FL 748 patching compounds. Treat cracks larger than ¼" as expansion joints and fill with appropriate Sika sealant.
- The new CMU must have a base coat of Sika Thorocoat®-749 Block Filler and be pinhole-free.
- If applying a single coat to bare concrete, prime the surface with Sika Thorocoat®-150 Primer prior to coating. Chalky surfaces should be primed with Sika Thorocoat®-100 Primer.

MIXING

- Prior to use, mix Sika Thorocoat®-350 Aquasol at a slow speed with a drill and mixing paddle to ensure uniform color and to minimize air entrapment.
- 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

- Apply Sika Thorocoat®-350 Aquasol by brush, spray, roller, or spray-and-backroll.
- Maintain proper uniform wet-film thickness (WFT) during application to ensure the performance characteristics desired
- (see yield rates section). Application rate should not exceed 5–8 wet mils. Care should be taken when applying it to heavily textured substrates. Fluted masonry and raked joint substrates will require hand detailing to ensure an even and successful application.
- Always work to a natural break and maintain a wet edge during application.
- For uniformity of color and texture, application techniques must be consistent throughout the project.

Roller
- Use a quality ½" (13 mm) nap roller cover. Depending on the surface texture, a 3/8" (9 mm) roller cover may be needed in order to prevent excessive thickness and mud cracking.
- Completely saturate the roller and keep it loaded with the coating to build the required mils. Never dry roll.
- Cross roll, maintaining a wet edge, to achieve uniform thickness. Backroll in one direction for a consistent appearance.

Spray
- Equipment is available for spraying Sika Thorocoat®-350 Aquasol. Contact the equipment manufacturer for further recommendations.
- Backrolling in one direction after spray application is recommended to achieve uniform mil thickness.

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

Drying Time
Times assume 70 °F (21 °C) and 50% relative humidity.
To touch: 2–4 hours
To recoat: 6 hours minimum
Lower surface or air temperatures and higher relative humidity will extend the drying time.

Hydrophobic Effect
The hydrophobic (water-repellent) effect develops in approximately 30 days through exposure to the elements. Actual time to water repellency will depend on environmental conditions and level of exposure.

CLEANING OF TOOLS

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

MAINTENANCE

CLEANING

Clean Sika Thorocoat®-350 Aquasol with water only. The use of detergents or soaps will degrade the hydrophobic effect. After detergent cleaning, the hydrophobic effect will reappear in approximately 30 days time, depending on exposure conditions.

Recoating
Once the hydrophobic effect has developed, Sika Thorocoat®-350 Aquasol can be recoated, but must first be cleaned with a detergent in order to degrade the hydrophobic effect and facilitate the bond of the new coating.

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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