

## PRODUCT BULLETIN

# Stolit® HDP™

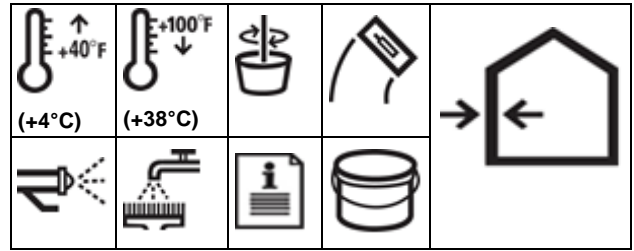
Product Number: 81699-81702

81699 Stolit HDP 1.0

81700 Stolit HDP 1.5

81701 Stolit HDP R1.5

81702 Stolit HDP Freeform



## PRODUCT DESCRIPTION

Stolit HDP is a ready-mixed, acrylic-based hydrophobic exterior or interior decorative and protective textured wall finish with enhanced algae and mildew protection. It is used as a finish in Sto proprietary wall systems, and over prepared vertical above grade concrete, masonry, and stucco substrates.

FEATURES	BENEFITS
Enhanced Algae and Mildew Resistance	Reduced maintenance costs – increased cycle time between recoats
Hydrophobic	Excellent water repellency; keeps walls clean longer
High Water Vapor Permeability	Allows substrate to breathe naturally; excellent resistance to blistering and peeling
Integral Sto HP Colorants	Lasting uniform color
Enhanced Polymer Technology	Spreads and floats easily, UV resistant
Water-based	Safe, non-toxic; cleans up with water
Low VOC	Low environmental impact, improved IAQ

### Coverage (per pail):

81699 Stolit HDP 1.0: 130-150 ft<sup>2</sup> (12.1-14.0 m<sup>2</sup>)

81700 Stolit HDP 1.5: 120-130 ft<sup>2</sup> (11.1-12.1 m<sup>2</sup>)

81701 Stolit HDP R1.5: 130-150 ft<sup>2</sup> (12.1-14.0 m<sup>2</sup>)

81702 Stolit HDP Freeform at 1/16 in (1.6mm) uniform thickness: 80-95 ft<sup>2</sup> (7.43-8.83 m<sup>2</sup>)

Coverages may vary depending on application technique, surface conditions, waste factor, and thickness. Stolit HDP Freeform may have variances from published coverage range, depending on final texture. Construct a mock-up under actual conditions of use to verify proper surface preparation, coverage, and aesthetics, for approval by the appropriate authority.

**Packaging:** 5 gallon pail (19L)

**Shelf Life:** 12 months, if properly sealed and stored in original unopened packaging.

**Storage:** Protect from extreme heat [90°F (32°C)], freezing, and direct sunlight.

## SURFACE PREPARATION

Sto Proprietary Wall Systems: StoTherm® ci, StoVentec® Render, StoPowerwall®, StoQuik Silver®, StoPanel® Systems, StoLite® Panel: surface must be dry and free of all bond-inhibiting materials. Prime portland cement base coats with the appropriate Sto primer tinted to the same color as the finish for best results. Refer to applicable Sto Specification.

Concrete, masonry and stucco surfaces: surfaces must be fully cured, clean, dry, and free of frost, damage, and all bond-inhibiting materials, including dirt, dust, efflorescence, form oil and other foreign matter. Loose or damaged material must be removed by water-blasting, sandblasting or mechanical wire brushing and repaired. Avoid application over irregular surfaces. Resurface, patch or level surfaces to required tolerance. For best results use the appropriate Sto primer prior to applying finish. Refer to applicable Sto primer product bulletin.

Gypsum wallboard surfaces: wallboard must be taped and fasteners spotted with joint compound. Refer to ASTM C-840 and gypsum wallboard manufacturer's literature. Surface must be free of dust, dirt and other bond inhibiting materials. Surface must be primed with appropriate Sto primer tinted to the same color as the finish.

## MIXING

Mix with a clean, rust-free electric drill and paddle. A small amount of clean water may be added to aid workability. Limit addition of water to amount needed to achieve the finish texture.

## APPLICATION

Apply only to structurally sound, clean, dry, properly prepared, frost-free surfaces.

Apply with a clean stainless steel trowel to a rough thickness slightly more than the largest aggregate size. Use the trowel to scrape the material down to a uniform thickness no greater than the largest aggregate size. Achieve final texture by floating with a stainless steel or plastic float (for rilled finishes) in a figure eight motion. Once applied, the working time is up to 20 minutes depending upon material, ambient temperatures and surface conditions.

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### APPLICATION (CONTINUED)

Stolit HDP Freeform: apply with a clean stainless steel trowel to a thickness of 1/16-3/16 inches (1.6-4.8mm). Achieve final texture with a trowel, special roller or putty knife.

Spray Application: spray evenly with appropriate spray equipment to ensure full coverage of the surface. A hopper gun has been used to successfully spray Sto textured finishes. Test first to be sure of desired results. Spray application is not recommended for Stolit R (rilled texture finishes).

IMPORTANT: ALWAYS check color for proper match. If color does not match, STOP-call your Sto representative. For best results always prime cementitious substrates. Apply coating in a continuous application, always working from a wet edge or architectural break to eliminate cold joints. Minor shade variations may occur from batch-to-batch (refer to batch no. on pail). Avoid installing separate batches side-by-side and avoid application in direct sunlight. Avoid installing new finish adjacent to weathered or aged finish. 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.

### 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. Thicker textures and application during cold, wet weather require extended drying time and protection. 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

- Use only when surface and ambient temperatures are above 40°F (4°C) and below 100°F (38°C) during application and drying period.
- StoTherm ci and other foam plastic-based EIF Systems: select colors with a light reflectance value (LRV) of 20 or greater. Refer to Sto Tech Hotline No. 1294-E.
- Some dark colors cannot be tinted. Refer to Sto Tech Hotline 0893-EC when using intense, highly saturated colors or colors requiring the use of organic pigments.
- Not for use on weather-exposed horizontal surfaces, below grade, or on surfaces subject to water immersion.
- Sloped surfaces: Refer to Sto details.

### LIMITED WARRANTY

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

### HEALTH & SAFETY

#### Health Precautions:

Product is water-based. As with any chemical construction product, exercise care when handling

#### 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:** flush with cool water, like any non-hazardous solid

**Skin Contact:** if skin is irritated from handling product, wash thoroughly with soap and water, and wear protective gloves. Seek medical attention if condition 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.

**Spills:** Collect with suitable absorbent material such as cotton rags.

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

**Warning:** KEEP PACKAGING CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY.

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### TECHNICAL DATA

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT*
Accelerated Weathering	ASTM G155	2000 hours	No deleterious effects <sup>1</sup>
Hydrophobicity	Contact Angle Measurement <sup>2</sup>	Minimum 110 degrees after 1-year weather exposure	113 degrees and increasing at 1-year
Mold Resistance	ASTM D3273	No growth @28 days	No growth at 180 days
Salt Spray	ASTM B117	1000 hours	No deleterious effects <sup>1</sup>
Freeze/Thaw Resistance	ASTM E2485	100 cycles	No deleterious effects <sup>1</sup> when viewed under 5X magnification
Water Penetration Resistance	ASTM E331	No water penetration @ 2.86 psf for 15 min	No water penetration @ 6.24 psf negative pressure for 2 hours
Water Resistance	ASTM D2247	14 days	No deleterious effects <sup>1</sup>
Water Vapor Transmission	ASTM E96 Method B	Measure, greater than 10 perms	Water vapor permeable, greater than 40 perms (2288ng/Pa·s·m <sup>2</sup> )
Tensile Adhesion	ASTM C297	Greater than 15 psi (103 kPa) in StoTherm ci System	Greater than 15 psi (103 kPa)
Impact Resistance	ASTM E2486	No mesh fracture minimum 6 out of 10 impacts at 25-49 in-lb (2.83-5.54 J)	Pass, meets Standard impact classification as finish component of StoTherm ci
Surface Burning	ASTM E84	Flame Spread: < 25 Smoke Development: <450	Flame Spread: 0 Smoke Development: 5
Radiant Heat Ignitibility	NFPA 268	No ignition after 20 minute exposure	Complies <sup>3</sup>
Fire Spread in Multistory Construction	NFPA 285	Meets conditions of acceptance for use on noncombustible construction	Complies <sup>3</sup>
Fire Resistance Rated Construction	ASTM E119	Meets hourly rating	Complies <sup>3</sup>
Building Code Compliance	Class A Building Material: qualifies for use as an interior finish		
	Complies with IBC Section 1407.2: meets performance requirements of ASTM E2568 as finish component of StoTherm		
	Meets requirements for use on noncombustible construction and fire-resistance rated wall construction as a finish component of code compliant concrete, concrete masonry, and portland cement stucco wall assemblies, and in Sto proprietary wall systems <sup>2</sup> – refer to evaluation reports or design listings below: <ul style="list-style-type: none"> <li>• StoTherm ci: ICC-ESR 1748</li> <li>• StoPanel Classic NEXt ci: ICC-ESR 4500</li> <li>• StoVentec Render: Intertek Design Listing</li> <li>• StoPowerwall: ICC-ESR 2323 and IAPMO BCR 382</li> <li>• StoQuik Silver: ICC-ESR 2536</li> </ul> Sto / CWP 30-01		
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.		

\*Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests. 1. No deleterious effects: no cracking, checking, crazing, erosion, rusting, blistering, peeling, or delamination. 2. Krüss MSA on smooth surface. 3. Complies as finish component based on rational analysis of fire test data

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#### 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 Canada, Ltd. website, [www.stocanada.com](http://www.stocanada.com)