

PRODUCT BULLETIN

**StoPrime® Block Surfacers HP**

Product Number: 81520



**PRODUCT DESCRIPTION**

StoPrime Block Surfacers HP is a high build alkali resistant primer for use on vertical above grade walls over concrete, concrete masonry and stucco. Its primary purpose is to fill concrete block surfaces prior to the application of Sto top coats.

FEATURES	BENEFITS
Alkali resistant to pH 13.0	Can be applied on cementitious substrates before finish coating to resist blistering, fading.
Acrylic-based	Excellent adhesion; weather resistant
Vapor Permeable	Allows substrate to breathe naturally; resists blisters caused by trapped vapor
Water Based	Cleans up with water
Low VOC	Safe for workers and the environment

COVERAGE (per pail)  
440 - 470 ft<sup>2</sup> (40.8 – 43.6 m<sup>2</sup>)

Coverage will vary depending on substrate condition and texture, application technique, waste factor, final film thickness, and other variables that may exist.

Packaging: 5 gallon pail (19L)

Shelf Life: 12 months, if properly stored and sealed.

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.

**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, or any other condition 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. If pressure washing, follow necessary safety precautions and adjust pressure to avoid damage to the underlying substrate. 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 before application of coating.

**MIXING**

Use at a preconditioned temperature of 70 ± 5°F (21 ± 3°C). Mix undiluted product for 3 minutes using a slow-speed drill and a mixing paddle. Mix thoroughly to a uniform consistency.

**HEALTH & 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.

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### APPLICATION

#### Vertical Wall Surfaces

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 with brush, roller, or proper spray equipment in a continuous coat, always working from a wet edge or architectural break to eliminate cold joints. Back roll open texture surfaces such as concrete masonry. Allow sufficient time for drying between coats.

Spray Application

#### Clean Up

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

### LIMITATIONS

- Apply when ambient and surface temperatures are 40°F (4°C) and rising, and below 100°F (38°C)
- Do not apply if the surface temperature is less than 5°F (2.8°C) above the ambient dew point temperature.

Apply to the prepared substrate using airless spray equipment that pumps a minimum 1 gallon per minute (GPM). Suggested tip size is minimum .025. Pressure and tip size may vary depending on equipment used and technique. Spray uniformly at a thickness of 14-16 wet mils to achieve 7.7-8.8 DFT. Use overlapping horizontal sweeping motions for continuous coverage. For best results back roll porous surfaces with 1 to 1-1/2 inch (25-38 mm) synthetic nap roller to fill voids and eliminate pinholes. Use thick nap roller for rough surfaces such as split face CMU.

#### Roller Application

Apply minimum two uniform coats with a 1 to 1-1/2 inch (25-38 mm) synthetic nap roller to achieve total 7.7-8.8 DFT.

#### Curing/Drying

Product 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.

- Do not use below grade, or in areas subjected to hydrostatic pressure, water immersion, ponding, or puddling.
- Do not overcoat with solvent-based materials.
- 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.
- Not for use on wood or metal surfaces

#### LIMITED WARRANTY

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

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## TECHNICAL DATA

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT*
Alkali Resistance	ASTM D1308	4 hours exposure	No lifting, wrinkling, disintegration, or color change
Efflorescence Blocking	ASTM D7072	48 hours in humidity cabinet at 100°F (39°C)	No efflorescence observed
Adhesion to Concrete	ASTM D7234	> 50 psi (344 kPa)	316 psi (2179 kPa)
Adhesion to Substrates	ASTM D4541	> 50 psi (344 kPa)	Concrete: 280 psi (1931 kPa) CMU: 280 psi (1931 kPa) Stucco: 105 psi (724 kPa)
Water Vapor Permeability	ASTM D1653 ** Wet cup method	Measure	33 perms (1888 ng/s m <sup>2</sup> Pa)
% Solids (volume)	ASTM D2697	N/A	55
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 100 g/L.		
* Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests.			
**D1653 results are estimates based on E96 wet cup method			

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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 Corp. website, [www.stocorp.com](http://www.stocorp.com)

