

# Solarprime AC

## Single Component Water-borne Acrylic Primer

### FEATURES

Low odour  
Excellent flexibility  
Excellent corrosion protection

### BENEFITS

- Meets the most stringent VOC regulations
- May be applied over most tightly adhering coatings

### DESCRIPTION

Solarprime AC is a high performance, direct-to-metal acrylic primer and intermediate coat which can tolerate a variety of water-based topcoats. Solarprime AC has exceptional film strength and adhesion.

### BASIC USES

Solarprime AC is used as a primer for roofing applications requiring a VOC compliant primer. Can be applied over rusted or ISO 8501 St2 or St3 cleaned surfaces. **Not recommended for immersion service.**

### PACKAGING

5 litre and 20 litre

### COLOUR

Buff

### GRADE

Brush, Roller, Spray

### STORAGE

Store indoors. Keep from freezing.  
12 Months shelf life in unopened containers, when properly stored.  
Temperature: 4 to 43°C  
Humidity: 0 to 95%

On the jobsite, materials should remain on the pallet until use and be stored in a shaded, ventilated area. Materials should be covered with a light-coloured, reflective tarp for protection against the elements. Allow for adequate air flow inside the pallets.

Shelf life could be affected if the product is not stored properly.

### APPLICATION

**Surface Preparation:** Remove any oil or grease from the surface to be coated, followed by a thorough rinse with clean potable water.

**Roof Sheeting:** ISO 8501 St2 for maximum protection.

**Previously Painted Surfaces:** Lightly sand or abrade to roughen and de-gloss the surface. Existing paint must attain a minimum 3A rating in accordance with ASTM D3359 "X-Scribe" adhesion.

**Mixing:** Power mix Solarprime AC until uniform in consistency. Avoid excess air entrainment.

**Thinning:** May be thinned up to 5% up to a maximum of 15% by volume with clean potable water where conditions dictate. Areas with cool substrate and warm ambient conditions can experience surface skinning and separation. Under these conditions, the use of 5 to 10% by volume of Additive 102 assists in the proper film formation at the recommended dry film thickness, without surface skinning.

**NOTE:** Use of thinners other than those supplied or approved by StonCor Africa may adversely affect product performance and void product warranty, whether expressed or implied.

**Roller Application:** Use a short woven nap synthetic roller. Multiple coats may be required over rough surfaces.

**Brush Application:** Use a synthetic bristle brush. Two coats will be required in order to achieve desired film thickness and acceptable hiding characteristics.

June 2026 replaces February 2025

APPLICATION  
(Continued)

**Airless Spray Application:**

Pump Ratio\*: 30:1 (min)  
GPM Output: 3.0 (min)  
Material Hose: 10mm I.D. (min)  
Tip Size: .019" to .023"  
Output psi: 1800 to 2200 (124 to 152 bar)  
Filter Size: 60 mesh

\* For 2 or more pick-ups, a 45:1 pump ratio is recommended.

For ease of application using airless spray equipment, remove the pick-up tube and immerse the lower unit directly into the material. Teflon packings are recommended and are available from the pump manufacturer.

COVERAGE RATE

7.4m<sup>2</sup>/litre at 50 microns

Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.

THEORETICAL SOLIDS CONTENT

By volume: 38% ± 2%

RECOMMENDED THICKNESS

50 microns

Additional thickness may be required over rough surfaces. Dry film thickness in excess of 75 microns per coat is not recommended.

TEMPERATURE RECOMMENDATIONS

	Material	Surface	Ambient	Humidity
Normal	16-32°C	18-29°C	18-32°C	10-80%
Minimum	10°C	10°C	10°C	0%
Maximum	40°C	49°C	43°C	85%

Do not apply when the surface temperature is less than 3°C above the dew point. Keep dry at 24°C and 50% RH for 90 minutes after application. Water-based products are sensitive to moisture during curing. Do not apply if the temperatures are expected to drop below 10°C within 12 hours of application.

Special thinning and application techniques may be required above or below normal conditions.

TEMPERATURE RESISTANCE

**Continuous:** 65°C

**Non-continuous:** 93°C

At 93°C and above, discolouration is observed.

CURE TIME

These times are at recommended dry film thickness of 50 microns:

Temperature	Dry to Handle & Topcoat	Maximum Recoat
10°C	6 Hours	7 Days
25°C	3 Hours	7 Days
32°C	2 Hours	7 Days

High humidity, high film thickness or cooler temperatures will lengthen the dry to handle / topcoat and final cure times due to slower water evaporation rate. Cohesive strength will develop with time.

If the maximum recoat times have been exceeded, the surface must be abraded or sanded prior to the application of additional coats.

CLEAN-UP

Use clean potable water, followed with suitable solvent to dry equipment.

LIMITATIONS

- Not for use under continuous immersion or prolonged (longer than 48 hours) ponding water. Not recommended for areas of high pedestrian traffic.
- Consult Tremco Roofing sales consultant for trafficable or walkway solutions.

MAINTENANCE



Roofing & Building Maintenance

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Your local Tremco Roofing sales representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventive maintenance are all part of a sound program.

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## TECHNICAL SUPPORT

Your local Tremco Roofing sales representative, working with the Technical Service staff, can help analyse conditions and needs to develop recommendations for special applications.

**CAUTION:** Read and follow all caution statements on this product data sheet and on the material safety data sheets for this product.



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