



Epoxy &  
Polyurethane  
Manufacturing and  
Research

# TECHNICAL BULLETIN

## STA-CRYL 47 Universal Primer/Finish

### Description

STA-CRYL 47 Universal Primer Finish is a waterborne, high solids, single component, UV resistant, acrylic polymer that offers, low VOC, corrosion resistance, fast dry, is very user friendly, highly adhesive, and is moisture tolerant. STA-CRYL 47 Universal Primer Finish is a low gloss coating supplied in white, and comes in tint bases suitable for exterior exposure.

### Applications

STA-CRYL 47 Universal Primer Finish may be applied directly to most properly prepared metals and cementitious substrates. STA-CRYL 47 also is utilized as a universal prime coat for Sta-Crete® Water Base Epoxies, Sta-Crete® 2700 Series Polyurethane, and may be used as an intermediate coat with ZRC ZERO VOC primer for optimum corrosion resistance. Typical applications include steel and concrete storage tank exteriors, steel bridges, piping and pump equipment, rebar, OEM metal applications, marine steel decks, and many other surfaces requiring quick dry protection.

### Typical Technical Information

|                |   |
|----------------|---|
| Volume Solids  | 40%   |
| VOC            | Max VOC 100 g/l   |
| Packaging      | 1 <sup>s</sup> , 5 <sup>s</sup> , 55 <sup>s</sup>   |
| Flash Point    | >200°F.   |
| Gloss          | Low Gloss   |
| Colors         | White and Tint Bases  |
| Dry Time       | @70°F. 50% RH,<br>30-minutes to touch<br>2-hours to topcoat.<br>Full cure in 48-hours (washability) |
| Film Thickness | 6-8 mils wet to achieve 2.5-3.5 mils dry  |
| Coverage       | 250-300 ft <sup>2</sup> /gallon/coat  |
| Thinning       | None Required. Use mild soap and tap water for cleanup.   |
| Top Coats      | Sta-Crete SS1600 or SS3700, Sta-Crete SS2700  |

### Surface Preparation

#### Concrete –

All visible oil, grease, sludge, and any other contaminants shall be removed prior to any abrasive surface preparation, acid etching and water washing. Surface shall be cured, dry and free from alkali stain and laitance. Blas-Trac or other approved mechanical method to achieve a 60-80 grit profile for long term adhesion and non-slip surface on floors.

#### Metals –

All visible oil, grease, sludge, and any other contaminants shall be removed prior to any abrasive surface preparation. Prepare carbon steel in accordance with SSPC-SP6 and achieve 1-2 mil surface profile. Small surfaces may be prepared in accordance with SSPC-SP2 and SSPC-SP3 followed by SSPC-SP1.

#### Wood –

Surface must be completely dry, free of any contaminants, mildew and organic matter.

#### Existing Coatings –

High-pressure wash off any chalk, remove all visible grease, oil, dirt or any other deleterious matter. Spot prime surfaces prior to full application coat.



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#### Application Methods

##### Brush –

Use top-quality nylon bristle brush for best film properties.

##### Roller –

Lambswool or similar cover with phenolic core, ¼ - ½ inch nap thickness.

##### Spray –

Heavy-duty industrial conventional air spray or airless spray equipment utilizing spray gun tip size between .017"-.019". Adjust pressure for proper atomization.

##### Environment –

Apply between 60°F. – 100°F. and 5°F. above dewpoint.

##### Safety –

Areas such as pool decks, sloped driveways, or other surfaces subjected to water may become slippery if coated. If you must seal these surfaces, keep the sealer film build-up to a minimum. In severe cases a non-slip material such as fine glass beads, washed silica sand and other aggregates may be broadcasted between coating applications.

**Contact EPMAR for any additional application information.**

#### Warranty

The following warranty is made in lieu of all other warranties, either expressed or implied. This product is manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use of this product and no warranty is made as to the results of any use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product, which is proved to be defective. Any claim of defective product must be received in writing within one (1) year from date of shipment. Neither seller nor manufacturer assumes any liability for injury, loss, or damage resulting from use of this product.

**Service is part of our formula**

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