

PRIMER 342

Low Viscosity Reactive Acrylic Primer/Sealer/Consolidate

DESCRIPTION:

Primer 342 is a reactive, water-resistant, low viscosity, vapor permeable acrylic emulsion primer. It is used for penetrating and conditioning porous or friable surfaces prior to filling with **Elasto-Fill 354** and/or coating with **Elastowall 351**. It is extremely effective at increasing bond strength of existing coatings to the masonry prior to coating with **Elastowall 351**, if paint stripping is impossible. It is also used as a pre-treatment for aiding in the drying of saturated, thick-section concrete and masonry structures. **Primer 342** provides better retention of bond and film integrity in applications on saturated/surface-dry substrates than may typically be achieved by nonreactive acrylic emulsion primers.

Typical Uses:

- Priming of porous masonry such as exposed terra cotta bisque, soft sandstone, porous stucco, prior to coating with **Elastowall 351**
- Consolidation of friable masonry, concrete and stucco surfaces prior to coating with **Elastowall 351**
- Stabilization of compromised terra cotta glaze prior to reprofiling with **Elasto-Fill 354**
- Drying aid for thick section masonry and concrete structures
- Increasing bond strength of existing coatings to the masonry prior to coating with **Elastowall 351**

The product is intended for use as a primer for **Elastowall 351**, but may be used with other

350-Series products or left exposed without further coating.

Application:

Primer 342 is supplied ready-to-use and requires no mixing or thinning. It may be applied by roller, brush, low pressure hand sprayer or airless spray equipment set up for use with low viscosity materials. It should be applied to clean, hard, dry or damp surfaces.

Apply in an even, saturating single coat, avoiding rundown to surfaces which will not be top coated. Masking may be required in windy or congested areas. Immediately remove runs and spills by flushing with clean water.

Technical Data	
Composition	100% Acrylic Emulsion
Solids Content, wt.	Approx. 30%
Density	Approx. 8.5 lb/gal
Minimum Application Temperature	40 °F and Rising*
Direct Tensile Bond Strength, on porous substrates	100 psi Minimum, dry 70 psi Minimum, wet
Accelerated Weathering, ASTM G53, 500 hours	No yellowing, fading, swelling, blistering, chalking or cracking
Compatible Substrates	Concrete, wood, stucco, brick, weathered terra cotta glaze**, terra cotta bisque, stone**, asphalt roof shingles, many previously coated surfaces***.

Bond Strength Improvements Primer 342 vs. No Primer		
Substrate	Treatment	Average Bond Strength (psi)
Asphalt Coating	No Primer	31
Asphalt Coating	Primer 342	100
Porous Limestone	No Primer	42
Porous Limestone	Primer 342	158
Mineral Coating	No Primer	82
Mineral Coating	Primer 342	157

On highly porous surfaces, an optional second coat may be applied. Allow each coat of primer to through-dry before application of the subsequent treatment. Typically, 30 minutes to 2 hours of drying will be sufficient. Product will turn from milky to clear as it dries, and will cure to a tough, tack-free film. There is no critical window for subsequent treatments. Primer does not degrade under direct UV exposure in sunlight and compatible topcoats may be applied at any time after primer has dried.

Permeability is controlled by the coverage rate, number of applications and the porous structure of the substrate. Breathability of 90 - 98% is typical, with lower values obtainable, where desired, to aid in drying of saturated masonry and concrete.

Limitations:

Product is not intended for use under constant immersion conditions. Some substrates such as soft woods and asphalt contain oils or resins which may “bleed” through *Primer 342* and 350-Series materials, necessitating the use of a stain-blocking primer. Do not apply when rain is expected within 4 hours.

Allow extra drying time when applying to non-porous surfaces such as glazed terra cotta or brick.

*If *Primer 342* is to be left exposed without top coating, apply at minimum temperature of 50 °F and rising, or some haziness may be evident in cured films. Do not apply when relative humidity exceeds 95%.

**On high-gloss substrates such as some brick and terra cotta glazes or polished hard stone such as granite and marble, use of Type G Bonding Additive may be required.

***Always test a small, inconspicuous area prior to large scale application. This is particularly important when applying *Primer 342* over an existing coating.

Drying of Saturated Structures:

Edison Coatings has developed methods of drying certain deeply saturated concrete and masonry elements using *Primer 342*. This process makes use of the Primer’s vapor permeability to reduce the rate of surface evaporation and achieve a balance with the rate of capillary transfer, promoting deeper drying. For more information, contact Edison Coatings, Inc.

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PROTECT FROM FREEZING.



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