



**APPLYING THERMO-SEAL® 1500 IR REFLECTIVE PAINT ON STUCCO, CONCRETE, EFIS WALLS, SIDING SYSTEMS AND TRIM**

**(Application process is always to be determined based existing conditions of wall substrate. If in doubt, contact THE ULTIMATE COATINGS COMPANY, or its representative.)**

For walls coated with existing, adhering paint that is in good condition or prepared as noted below. Vertical mansard type roof walls of wood shingles or tile, are suitable for coating with this product, but will require full primer coating in most instances. Please contact us for advisement.

**PREPARATION:**

Power-wash and remove mildew using mildewcide with minimum overnight dry time during warmer weather 65 degrees F. or above. If cracks, holes or spalling are present, these must be filled and matched to existing texture of walls prior to spot priming. An appropriate premium acrylic bonding primer must be used on top of any repairs on all substrate types except for metal. For metal surfaces, spot priming on areas of light rust that have been lightly sand should be done with our rust inhibitive, **METAL PRIMER 490**, with the spot primer application done using care so as not to create additional build up on the smooth surfaces at these repairs from excessive primer not properly blended at the edges into the wall surface. For this reason, a "Wiz" type roller (mini roller) set-up is recommended with ½" nap maximum.

**FOR CHALKED PAINTED WALLS:**

Can be painted only if power-washed and scrubbed followed by a full primer coat of **CLEAR MASONRY SEALER 990**, or other premium with acrylic bonding primer at approximately 1 gallon for each 200 sq ft of surface or less.

**FOR COLOR COAT STUCCO, NEW CURED, or UNCOATED STUCCO:**

After power-washing and full drying, may be sealed with **CLEAR MASONRY SEALER 990**, or other acrylic bonding primer at approximately 1 gallon for each 200 sq ft of surface or less.

### **FOR DETERIORATED STUCCO or CONCRETE SUBSTRATES:**

Where repairs to surfaces are needed, clean and wash stucco or concrete surfaces prior to repairs. Patch all holes and significant blemishes. Walls and horizontals may then be spot-primed with an acrylic bonding primer or sealed in full with **CLEAR MASONRY SEALER 990**. Where greater consolidation or questions about the strength of the substrate exist, an Epoxy Primer system may be a good idea. Test a small area in advance of finish coating to determine if primer(s) and repairs are compatible and produces strong bond before proceeding to finish. TEST by applying yellow masking tape to the primed surface after it is completely dry and settled (6-8 hours), pull tape off quickly. If a substantial amount of primer sticks to the tape, it means there is a bonding problem and another primer must be utilized.

Manufacturer's suggested drying time for sealer/primer(s) must be correctly followed, or successive topcoats may not dry properly and **THERMO-SEAL** may fail and bubble.

### **HARDIE PANEL OR HARDIE BOARD or EFIS:**

Fully prime new HARDIE or EFIS products including the bottom or open edges/reveals before topcoat finishing with THERMO-SEAL 1500 as below. This is to be done even case of of factory primer on the material.

### **FINISH COATING APPLICATION:**

With sprayer: Apply **THERMO-SEAL** with airless sprayer with a steady horizontal pattern in 3-4" overlaps moving bottom of roof to peak, then repeating. Airless sprayers with a minimum pressure of 2500 psi using spray tips with a fan diameter of 10"-12" are ideal (tip sizes 5-21 to 5-23 or, 6-21 to 6-23). Please note that the smaller diameter tips will take more time to apply material because less material is applied. When back-rolling more material on wall is better in first coat. Care must be taken to ensure that the coating is not piled up on the wall surfaces and that excessive material does not sag down. Should this occur, pressure on the sprayer must be lowered. Distance from wall should be 12-18". It is recommended that a second man follow the spray man with a 1/2" nap roller should over-application of paint occur (paint sagging), fully back-roll out the coating.

### **THINNING:**

The coating may be thinned with clear, clean water. This can be done at a maximum of 1 quart per 5 gallons of coating. Should sprayer not be moving coating sufficiently for efficient application, consider using a larger diameter spray tip before adding water. The key is never to over-thin **THERMO-SEAL** product.

**BACK-ROLLING:**

Rolling out (back-rolling) sprayed vertical surfaces, using a roller, may be done on first coat within a timescale generally of 1- 5 minutes after application depending upon air and wall temperature. This will ensure the best level of adhesion. Back-rolling will also ensure a better final finish appearance and will be a selling point to owner because it is a superior job. Although it takes more time, back-rolling it unarguably provides the best results with this high build paint. Hot weather will accelerate set-up time and may require immediate back-rolling to ensure proper layoff of coating.

**RE-COAT TIME:**

Re-coat time is 2 hours at 70 degrees F. If surface temperature is lower than air temperature or there is high humidity, dry time for re-coat will be longer. Surface should not be sticky to the touch in any way prior to re-coat. If more than 2 hours has passed and this is still the case, you must wait until the coating has fully dried. Failure to do so will result in paint coating failure and/or bonding problems.

**NOTE:** Product may just be hand-rolled for both or one coat utilizing ¾” nap, 100% wool or wool blend, roller cover. Finishing with down strokes is recommended for each pass to ensure coating flows to a uniform surface when dry.

**NUMBER OF COATS:**

A minimum of 2 coats should be applied over properly prepared existing painted surfaces in order for warranty requirements to be met and for longer-term durability.

**MINIMUM FILM THICKNESS:**

**A film thickness of 6-8 wet mils per coat should be achieved for 3-4 dry mils per coat.** A mil gauge used on wet surfaces, should be utilized if applicator is unsure of coverage. The mil gauge should be used to ensure Applicator's knowledge of material's correct millage is achieved. Use of good painting practices and these guidelines yield coating maximum of 200-225 sq ft per gallon, depending upon heat and humidity, tip size.

**FAILED PRIOR COATINGS:**

**Failed prior coatings that are flaking or lifting in most locations must be removed completely before recoating,** particularly if they are elastomeric or other coatings. Ultra-high pressure power washing with containment and/or water-based chemical stripper must be used. Old surface coatings that remain must be removed in full. If not, new successive primer and finish coatings will fail and bubble. Surfaces

with older finish or unsound finish will fail, due to either old finish softening or loss of bond strength after new material overcoats it.

**NOTE: Some concrete repair materials DO NOT allow standard acrylic primers to bond.** In such cases, **CLEAR MASONRY SEALER** or Epoxy Primer must be used. Alkalinity of repaired surfaces must be considered and allowed to balance prior to either acrylic or epoxy sealer application. For most repair materials, this means waiting a minimum of 72 hours after repairs are made before applying primers.

**DO NOT USE ON LARGE HORIZONTAL SURFACES, DECKS, OR AS A WATER-PROOFING COATING.**

**DO NOT EVER USE an alkyd primer of any kind on concrete or stucco.** Saponification (soaping) problems will occur over time as the substrate reacts with the alkyd primer. Therefore, only acrylic bonding primers, clear acrylic masonry sealer or epoxy primer must be used upon concrete or stucco surfaces.

**WEATHER CONDITIONS:**

**Do not apply** coatings during temperatures above 90 degrees ambient temperature.

**Do not apply** coatings onto surfaces over 115 degrees F. or below 50 degrees F. Use a handheld radiometer if in doubt.

**Do not apply coatings** when temperatures of 50 degrees or less are expected by evening or within 4 hours of expected temperature drop below 50 degrees.

**Do not apply** coatings in direct sun or where hot sun is expected within 1 hour.

**Do not apply** coatings when rain or fog conditions are expected within 4 hours.

**Do not apply** on primers, caulks or repair materials not fully dried or cured.

**Do not apply** if surface is wet or has salt residue from salt-water fog.

**Do not apply** if heavy saltwater fog conditions, or drizzle, have occurred without rinsing all walls to be second coated with **THERMO-SEAL** must be washed down and allowed to dry fully. Use same procedure between **THERMO-SEAL** 2nd coat.

**Questions? Phone or contact us:**

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