



APPLICATION GUIDE FOR THERMO-SEAL® 1500/1500M (High-build/High-Performance) Solar IR Heat-Reflective Paints ON METAL WALLS, METAL SIDING SYSTEMS, METAL TRIM, and MANSARD METAL ROOFS
(Application process is always to be determined based on condition of existing paint, wall substrate, repairs and weather. In the event of any considerations, contact The Ultimate Coatings Company in advance of applying this paint.
Warranty application only by Approved Applicators.)

For metal walls coated with original, adhering paint that is in good condition, chalked or with minor peeling and metal vertical mansard type roofs performing as walls, including mansards and steep slope metal tiles, **ALL** are suitable for coating with this product with primer coat as noted. Please contact us for advisement in the event of additional metal surface types.

PREPARATION:

Power-wash fully and remove any mildew using mildewcide spot applied with Hudson or equivalent pump sprayer. If mildewed, scrub locations with mildewcide using nylon brush or allow solution to sit minimum of 15 minutes to kill mildew before power-washing off. Allow to dry overnight unless temperatures are at least 70 degrees F. average or higher. Feather sand by orbital sander or equivalent, on any visible rust locations to open surfaces.

PRIMING:

NOTE: Always TEST test surfaces for, primer bonding before commencing to paint.

Prior coated metal roofs must be tested to make confirm the type of existing roof coating is not Kynar or similar fluoro-polmer product, which will require coating with **KYN-PRIME 90** primer instead of **METAL PRIMER 490**. This is because standard acrylic primers will not bond to it. To test, apply an elastomeric onto a well-cleaned test area not larger than 8" x 12". This should have reinforcing fabric applied into a wet swatch of the elastomeric and then recoated with same to sandwich it in. Allow 3 full days drying time (more in colder weather) and then perform a pull test by tugging on the loose end of the reinforcing fabric attempting to pull it off. If it strips off easily, with little or no residue left on the roof, (bottom side is shiny) then roof is Kynar coated and requires **KYN-PRIME 90 Primer**, not **METAL PRIMER 490**.

Spot prime all rust or bared metal surface with **METAL PRIMER 490**, or upon any repairs, rusted fasteners, or new replacement screws/fasteners, caulked seams/joints. Spot priming must be carefully done so as not to create additional build up on surfaces at these repairs from excessive primer. For this reason, use a low nap "wiz" or mini roller set-up and not a paint brush.

Complete surface prep by full prime coatings prepped surfaces with rust inhibitive bonding primer **METAL PRIMER 490** (red, grey or white) is required after spot priming has dried. Generally, if factory paint or repainted surfaces have signs of chalking, checking, soiled spots, peeling, cracking, flaking paint, discoloration etc., or if original factory surfaces still have any gloss left. Check with manufacture first to confirm if any questions as to correct procedure. Manufacturer's suggested drying time for primers must be correctly followed or successive topcoats may not dry properly. If not followed, **THERMO-SEAL** longevity will be shortened and not meet specification for guarantee or warranty. **Always test the primer first** on cleaned surfaces to confirm bonding.

FINISH COATING APPLICATION:

With sprayer: Apply **THERMO-SEAL 1500/1500M** with airless sprayer with a steady horizontal pattern with 3 to 4" overlaps moving from side to side from top to the bottom of walls. Second sprayer coats should ideally be followed by back-rolling wherever texture of wall allows it using ½ inch nap roller to provide best adhesion and better touch-up capability. Coverage will be at a per gallon rate of 200-225 sq ft with two (2) coats are required for correct finish thickness and warrantee.

Airless sprayers with a minimum pressure of 2500 psi using spray tips with a fan diameter of 10"-12" are ideal (tip sizes 5-19 to 5-23 or, 6-19 to 6-23). Please note that the smaller diameter tips will take more time to apply material because less material is applied, but will supply more controllable amounts of paint. Care must be taken to ensure that the coating is not piled up on the wall surfaces and that excessive paint 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).

THINNING:

In warmer weather, **THERMO-SEAL 1500** 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 overly thin this paint product or risk less than expected durability due to thinner finished film on surfaces. **THERMO-SEAL 1500M should not be thinned at all since it not as thick as THERMO-SEAL 1500.**

BACK-ROLLING:

NOTE: Back-rolling is not required. Although it takes more time, and may not be possible due to surface profile, back-rolling second coats provides the best results.

Product may be rolled/back-rolled utilizing 1/2" nap, 100% wool or wool blend, roller cover upon metal wall surfaces. Finishing with down strokes is recommended for each pass to ensure coating flows to a uniform surface when dry. Rolling out (back-rolling) sprayed vertical surfaces, using a roller, may be done on second coats within a timescale generally of 1- 5 minutes after application depending upon air and wall temperature. Hot weather will accelerate set-up time and may require immediate back-rolling of second coats to ensure proper layoff of paint coating. This provides best level of adhesion for the **THERMO-SEAL 1500/1500M** high-performance paint. Back-rolling will also ensure a better final finish appearance and will be a selling point to owner because it is a superior job.

For **THERMO-SEAL 1500M**, high-performance paint, use discretion since this Gloss finish paint will not keep same gloss if back-rolled after its has set up.

RE-COAT TIME:

Re-coat time is 2 hours at 70 degrees F. and above. 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-coating. 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 premature paint failure and/or bubble problems.

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 minimum film thickness of 6-9 wet mils per coat must be achieved. A mil gauge, on wet surfaces, should be used 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 will paint coating yield of maximum 200-225 sq ft per gallon, depending upon heat and humidity, tip size.

FAILED PRIOR COATINGS:

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

CHALKED PAINTED WALLS:

Caulked walls should only be painted only if power-washed and scrubbed followed by full prime coat with **METAL PRIMER 490** rust inhibitive primer.

WEATHER CONDITIONS:

Do not apply at temperatures above 90 degrees F. ambient temperature or below 50 F.

Do not apply in direct sunlight onto surfaces measuring 115 degrees F. or more.

Do not apply at surface temperatures below 50 degrees F. Use a handheld indirect temperature gauge to check surfaces.

Do not apply when temperatures of 50 degrees or less are expected by sunset, or within 4 hours of expected temperatures below 50 degrees.

Note: Application of THERMO-SEAL below 50 degrees Fahrenheit, and/or on surfaces below 50 degrees may cause de-glossing action of dried paint and therefore it will not match specified gloss level of finish. Any such problem will be the responsibility of applicator and not the manufacturer.

ADDITIONAL CAUTIONS:

Do not apply in direct hot sun or where hot sun is expected within 1 hr.

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

Do not apply on primers, caulks or repairs that are 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 coastal (saltwater) fog conditions, or blown dust, or pollen have occurred on primed walls, walls must be rinsed/washed down and allowed to dry fully before first coated with **THERMO-SEAL**. Use same procedure between **THERMO-SEAL** first and 2nd coats if same conditions.

Do not store product in unprotected conditions that will expose it to temperatures of freezing (32 degrees F), or above 100 degrees F. in direct sun.

Do not spray onto any uncovered skin at any proximity less than 2 feet away.

Always apply paints with correct machine pressures and with correct protective clothing especially for eyes, mouth, nose and skin.

Do not apply or use this product for any purpose other than for which it is designed.

Use of non-ULTIMATE COATINGS primers with THERMO-SEAL paint products will void any warranty or guarantee. Please consult the manufacturer in advance of using any primers other than as noted above.

No-Peel Guarantee and Warranties must be confirmed with manufacturer in advance of jobs where Ultimate Coatings Company paints or primers are used.

Product performance issues to be strictly confirmed by a company representative and liability, if any, is strictly limited to product replacement. No other product performance assurances, or guarantees, are offered or implied.

QUESTIONS? Call: The Ultimate Coatings Company 1-800-226-9180

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