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HY-TECH ROOF COATINGS General Application Instructions



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Hy-Tech Roof Coatings are recommended for exterior use on all firm roof surfaces that are properly prepared, such as concrete tiles, clay barrel tiles, poured concrete slabs, wooden shingles, asphalt shingles, corrugated galvanized steel, mobile home roofs, Buses, RV's etc.

SURFACE PREPARATION: Surfaces MUST be CLEAN and FIRM!

Surfaces MUST be free of anything which could adversely affect the adhesion of the coating to the surface, including loose, scaling, peeling, blistering, chipping, cracking, flaking, chalking or powdering coating, dust, dirt, sand, soot, grease, oil, tar, wax, soap film or petroleum-based residue; chlorine, salt, efflorescence, or any other chemically reactive substance; and must be completely free of all mold, fungus, mildew or any other growing organism of any kind.

Power washing with Hy-Tech House Wash Concentrate, a biodegradable chemical cleaner, or a solution made with 16 fluid ounces (473 mL) of liquid household bleach and 2 fluid ounces (59 mL) of detergent in one gallon (3.785 L) of water is recommended. Rinse thoroughly with clean water to remove all traces of the cleaner. If roof does not require chemical cleaning, thoroughly sweep, vacuum, or blow down roof to remove any dirt, dust or other loose contaminants. You should have a completely clean and firm surface before any new coating is applied.

Any roof penetrations, parapet walls and unsound areas in the roof, i.e. blisters, delamination, deterioration, moisture saturation, severe corrosion, sharp projections, ridges, etc. shall be inspected for tears or cracks and repaired with Elasto Patch and fabric or replaced. Patch and seal seal cracks along metal drip edges, and open seams. Low areas that hold excessive ponding water must be brought into conformance by installing additional drains or adding additional slope to existing drains. Excessive ponding is defined as any area that holds in excess of ½" (13mm) of water as measured 24 hours after a rainfall.

PROCEDURE:

Prior to applying the coating to the roof surface, all detail work on seams, splits, protrusions, drains, flashings, fasteners, etc. utilizing Elasto-Patch, Roof Fabric shall be completed.

PRIMERS: All surfaces require a primer to insure a good bond of the finish coats.

EXISTING ROOFS: Apply one coat of #SR1220 Bond-It per package directions.

NEW METAL SURFACES: Prime with one coat #15 Aqua Prime

RUSTY METAL: Prime with #18 Red Oxide Metal Primer or #17 RUST CURE, a rust conversion coating.

NEW CONCRETE OR CLAY TILE: Hy-Tech #SR1220 Bond-It.

Adequate curing of detail work and primers must take place prior to applying the first coat. Subsequent coats shall be applied only after allowing adequate cure time for the preceding coat(s). Initial cure or dry time to achieve resistance to rain or overnight dew will normally require several hours.

Total cure to achieve long term resistance to ponded water will usually take 24 to 48 hours depending on weather conditions. If any form of dirt, sand or pollution fallout is detected on the surface of the coating, it is necessary to remove this material before applying additional coats. Surfaces should be blown off, swept or rinsed to remove contamination only after the Roof coatings film has fully cured.

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APPLICATION:

Stir thoroughly before using and occasionally while using. May be applied to dry or slightly damp surfaces, using brush, roller or spray.

Airless spray is the preferred method of application for Hy-Tech Roof Coatings, back rolling of the first coat is highly recommended. Brush or roller may be use for touch-up or detail work or for small areas that are not practical for spray application.

Brush and Roll: Recommended brushes are nylon or polyester designed for water base coatings.

A medium to heavy nap roller (3/4" – 1 3/4") may be used for application over flat substrates.

Apply generously, working the coatings into pores and cracks. Roof coatings must be applied in a minimum of two separate coats to ensure proper coverage rate, and a pinhole free continuous film. Try to apply the Coating as smoothly as possible. Two thin coats are always preferable to one thick coat. Each coat shall be applied in a direction perpendicular to the previous coat, except when coating metal roof panels.

Metal Roof Panels: Each coat shall be applied parallel to the vertical ribs on metal roof panels, taking care to coat both sides of each rib. Edges of the roof shall be pre-coated in a "picture frame" fashion.

THINNING: Hy-Tech Roof Coatings are ready to use and should be applied full strength as it is received in the can. Any thinning of the Coating will reduce the percentage of solids, which will adversely affect the durability of the applied coating. For spray application slight thinning may be necessary, use no more than 1 pint per gallon.

COVERAGE: On a rough porous surface, such as concrete tile, one gallon will usually cover from 75 to 100 sq.ft. On porous surfaces, the coverage on the second coat normally will be greater than the first coat.

On smooth, non-porous surfaces, such as sheet metal, the coverage rate will be 200-250 sq.ft. per gallon. Apply only at temperatures above 50° F. (10° C).

WEATHER CONSIDERATION: Before application, KEEP FROM FREEZING. Apply only at temperatures above 50° F. Apply only when weather will be fair for a sufficiently long time for the Coating to dry. Do not apply late in the afternoon or early evening when heavy dew could develop on the coating surface before it dries thoroughly. A very heavy rainstorm, such as those common in tropical climates, could wash the Coating off during the first few hours after application, if it has not dried thoroughly.

CAUTION! Harmful if swallowed. Do not take internally. Close container after each use. Avoid prolonged contact with skin and breathing of vapors. Use with adequate ventilation.

KEEP OUT OF REACH OF CHILDREN.

Limited Warranty

The statements made on this bulletin are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of materials and other variables affecting results are all beyond our control, Hy-Tech Thermal Solutions, LLC , does not make nor does it authorize any agent or representative to make any warranty of merchantability or fitness for any purpose or any other warranty, guarantee or representation, express or implied, concerning this material except that it conforms to Hy-Tech's quality control standards. Any liability whatsoever of Hy-Tech Thermal Solutions, LLC, to the buyer or user of this product is limited to the purchaser's cost of the product itself.