

ROOF GUARD #2050

Elastomeric – Ceramic
Insulating Roof Coating



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<p>DESCRIPTION</p>	<p>Roof Guard is a liquid applied roof coating that is flexible, waterproof, and insulating with additives that protect against mold, mildew, fungus and algae growth. Roof Guard features Hy-Tech's Exclusive CVM (Ceramic Vacuum Matrix) technology. CVM technology is the combination of our insulating ceramic microspheres suspended in a proprietary blend of polymers with the highest overall performance and enhanced toughness through crosslinking. Roof Guard's bright white formula with its ceramic microspheres reflects over 80% of the sun's rays and keep the roof temperature as much as 50 ° F cooler in the summer than a black roof does. This reduces the need for air conditioning and lowers cooling bills. HY-TECH roof coatings are designed to be durable, to remain flexible in winter cold down to -30°F without cracking and they have water vapor permeance greater than 1.0, thus allowing moisture vapors from within the structure to evaporate and escape out through the membrane while preventing water from entering through the dried film surface, Roof Guard will withstand wind driven rains up to 100 miles/hr. When applied according to Hy-Tech specifications for flat roofs, energy saving Hy-Tech Roof Coatings will hold ponding water, seal and prevent most leaks. Hy-Tech offers a 10 Year Limited Warranty on Sloped Roofs and a 5 Year Limited Warranty on Flat Roofs.</p>
<p>USES</p>	<p>Suitable for application to the following properly prepared surfaces: Cement Tile, Built-up Roofs, Metal Roofs, Plastic Panels, Polystyrene & Urethane Foam, Mobile Home Roofs, R.V. Roofs, Gravel Roofs, Asphalt Shingle Roofs, concrete, modified bitumen and Galvanized metal roofs. For homes, condominiums, apartments, warehouse, commercial buildings, hotels, office buildings and factories.</p>
<p>SPECIFICATIONS</p>	<p>Surface Preparation Surfaces must be clean and free of dirt, mildew, grease, excess chalk, loose or scaling paint. Paint will not stick to a chalky surface. For best results, it is recommended to pressure wash the surface with a minimum of 2500 psi of pressure and Hy-Tech House Wash. Mildew should be washed with a solution of 1 cup TSP, 1 Qt of household bleach and 3 Qts of water, rinse well and allow to dry. Patch or caulk all cracks, seams, flashings and roof penetrations and make any necessary repairs or replacements to damaged or leaking roof materials. Caulk all cracks 1/8" or larger, use polyester tape and #1220 Bond It primer to repair flashings and seams. <u>All repaired areas should be coated with two coats of roof coating prior to applying finish coats.</u></p> <p><u>Flashings:</u> All flashings should fit tightly to the roof. They should be held firmly by screws or taped down. Damaged or rusty moldings and flashings should be repaired, or removed and replaced.</p> <p><u>Stacks and Vents:</u> Stacks and vents remove excess moisture and fumes from your home. Faulty or poor performing stacks or vents will allow moisture to accumulate between the ceiling and the roof and cause condensation. They should be repaired or replaced, or added, if necessary.</p> <p><u>Seams, Cracks, and Stress Areas:</u> The same repair procedure generally applies to seams, cracks, and stress areas. Remove all dried-out caulk or coating. On seams, tighten screws if necessary. Seams, cracks, and stress areas over 1/4" wide should be repaired using polyester woven reinforcement. Always put membrane over the entire seam - not just the portion that looks faulty.</p> <p><u>Ponding Water:</u> Any area of a roof where water may pond must be repaired by installing drains, polyurethane foam build-up, or any means necessary to remove and prevent ponding water.</p> <p>Recommended Primers: New Aluminum and galvanized metal, prime with #15 Aqua-Prime, all other surfaces must be Primed with Bond-It #1220.</p> <p>Rusted metal: Clean, wire brush and apply one coat #18 Metal Prime or #17 Rust Cure</p> <p>APPLICATION: Once the roof is clean and primed apply the Finish/Top Roof Coating. Apply only at temperatures above 50° F. (10° C). Stir thoroughly before using and occasionally while using. May be applied to dry or slightly damp surfaces, using brush, roller or spray. Apply generously, working the Coating into pores and cracks. Try to apply the Coating as smoothly as possible. A minimum of two coats is recommended. Two thin coats are always preferable to one thick coat. Each coat should be applied perpendicular to the previous coat creating a checkerboard pattern. This guarantees no thin areas and a more uniform finish.</p> <p>THINNING: Hy-Tech Roof Coatings are ready to use and should be applied full strength as they are 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. Slight thinning may be necessary for spray application, maintain 20 mils wet spread rate and "backroll" the first coat while wet to insure filling of cracks and pinholes.</p>

	<p>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 100-150 sq.ft. per gallon.</p> <p>DRYING TIME: Drying time will vary depending on surface and air temperature, humidity, wind or air movement, exposure to sunlight, etc. Under ideal drying conditions, Hy-Tech Roof Coatings form a dew and drizzle resistant film in approx. 4 - 6 hours after application. Allow the first coat to dry 8 - 12 hours before applying the second coat. Drying times will vary depending on temperature, humidity and location. Longer drying time is needed if the temperature is colder than 50 ° F., if too thick a coat is applied, if the relative humidity is higher than 90%, if the air is calm, or the surface is not exposed to direct sunlight.</p> <p>CLEAN UP: Any drips, splatters, overspray or spills on shrubbery, walkways, drive-ways, or sides of mobile homes must be cleaned up immediately before Coating dries. NOTE: If Coating is spilled or splashed remove it at once, using water from a hose, warm soapy water, or alcohol solvent. Coating not removed before it dries will be almost impossible to remove. Clean hands, brushes, rollers, tools and other equipment immediately after use in warm, soapy water.</p>													
LIMITATIONS	<p>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. Serious roofing problems should always be referred to a licensed roofing contractor for repair before attempting any coating. Coatings cannot save worn-out, dried-out, or structurally weak roofs. Areas that hold water more than 48 hours should be eliminated before coating.</p>													
TECHNICAL DATA	<table border="1"> <tr> <td>COLOR: Bright Tintable White</td> <td>Vehicle Type: 100% Acrylic Emulsion</td> </tr> <tr> <td>Finish: Low Velvet Sheen</td> <td>Solvent: Water</td> </tr> <tr> <td>Recommended # of Coats: Two</td> <td>WEIGHT PER GALLON: 10.9 lbs.</td> </tr> <tr> <td>Drying Time Touch: 1 Hour Recoat: 12 hours</td> <td>FLASH POINT:N/A</td> </tr> <tr> <td>Coverage: 100-150 square feet per gallon</td> <td>Percent Solids By Vol.53.0% ± 2%</td> </tr> <tr> <td>Dry Film Thickness 10.0 mils @ 85 SFPG 5.0 mils @ 170 SFPG</td> <td>Voc Level: < 54 gms / ltr Complies with all Federal, State and Local VOC standards. Formulated without lead, mercury.</td> </tr> </table>	COLOR: Bright Tintable White	Vehicle Type: 100% Acrylic Emulsion	Finish: Low Velvet Sheen	Solvent: Water	Recommended # of Coats: Two	WEIGHT PER GALLON: 10.9 lbs.	Drying Time Touch: 1 Hour Recoat: 12 hours	FLASH POINT:N/A	Coverage: 100-150 square feet per gallon	Percent Solids By Vol.53.0% ± 2%	Dry Film Thickness 10.0 mils @ 85 SFPG 5.0 mils @ 170 SFPG	Voc Level: < 54 gms / ltr Complies with all Federal, State and Local VOC standards. Formulated without lead, mercury.	
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WARNINGS!	<p>If you scrape, sand or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, AVOID EXPOSURE. Before you start, find out how to protect yourself by contacting the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD(5323) or log on to www.epa.gov/lead"</p> <p>KEEP OUT OF REACH OF CHILDREN ~ DO NOT TAKE INTERNALLY USE WITH ADEQUATE VENTILATION.</p> <p>Avoid prolonged or repeated contact with skin and breathing of vapors or spray mist. Coatings should only be applied when ventilation is adequate. If there is not adequate ventilation, applicators should wear respirator protection approved by NIOSH / MSHA (TC-23C or equivalent).</p>													

Limited Warranty: The statements made on this bulletin 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 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. Rev 03/15/2003