



INSULATION COATING

QP-6400

<p>PRODUCT DESCRIPTION</p>	<p>QproTECH QP-6400 is an extremely unique ultimate performance insulation, corrosion and moisture protection coating. QproTECH QP-6400 is an epoxy ceramic-based coating that is impervious to heat and water providing for extreme insulation value.</p> <p>At 10 mils (0.25 mm) thickness the K value is 0.02 WmK or an equivalent R value of 30.</p> <p>The QproTECH QP-6400 is not just reflective, "it is true insulation".</p> <ul style="list-style-type: none"> • It can get dirty, lose its reflectivity, and it will still insulate because of the type components that have been incorporated into the product. • Also provides for up to 68% sound reduction based on independent tests. • Because it is "wetter than water", QproTECH QP-6400 can even be applied under salt water. • Applied properly, QproTECH QP-6400 warrants against damage from standing water and can remain under water permanently with no harm to the coating. • It may be applied directly over rust and offers unmatched protection against heat and cold extremes, mildew, alkali, UV, oils and grease. • QproTECH QP-6400 can be applied to a dry or wet surface making rain a non-issue when it comes to application time. • It is water proof and can be applied direct to Metal, PVC, Concrete, EPDM and cap-sheet • The QproTECH QP-6400 can also be applied to wood, stucco, sheetrock, virtually any substrate. • QproTECH QP-6400 adheres to practically all surfaces with remarkable flexibility. • QproTECH QP-6400 is not recommended to be applied directly to Teflon, high-plasticized vinyl's, polyethylene and silicone rubber. However, by utilizing QproTECH QP-520 Adhesion Assist the QproTECH QP-6400 can even be applied to polyethylene. • The product maintains flexibility to prevent cracking. • Very easy to use with long pot life, high insulation, high reflectivity, high emissivity, encapsulates virtually all roof material, chemically inert finish, withstands acids, alkalis, animal fats, grease and oils, • Can be used to encapsulate asbestos, so no tear off or landfill waste. • Withstands 2.5-inch hail at 140 mph. • Stops Thermal shock thus extending roof life. 	
<p>ASTM TEST DATA</p>	<p style="text-align: center;">ASTM B117</p> <p style="text-align: center;">ASTM 518 Thermal Conductance</p> <p style="text-align: center;">ASTM 518 Thermal Conductivity</p> <p style="text-align: center;">ASTM D-2240 Hardness</p> <p style="text-align: center;">ASTM E108-91A UBC32-7</p> <p style="text-align: center;">ASTM D-638 Tensile Strength</p> <p style="text-align: center;">ASTM E-96 Water Vapor Transmission</p> <p style="text-align: center;">ASTM G-53 500 hour accelerated weathering test</p> <p>ASTM 1640, D-92, D-1644A, D-2196, D-696, D-570, C-836, D-1652, D-1259</p>	<p>Passed 500-hour Salt fog test</p> <p>2.61 Btu(h)(ft²) (F) - Excellent</p> <p>0.0139 Btu(in)/(h)(ft²) (F), metric 0.002 w/m/K -Excellent</p> <p>85 Shore Durometer</p> <p>Class A Fire Rated</p> <p>1393 PSI</p> <p>0.7 perms</p> <p>"bent double with no cracking, remaining highly flexible"</p> <p>"Flexibility was retained in sub-zero conditions (down to -92 F)"</p>



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<p>FEATURES & BENEFITS</p>	<ul style="list-style-type: none"> • Very High Insulation Capacity • Can be applied over Wet Surface and remain under water • Very Little Prep Work over Rusty Metal • High Resistance to UV, Adverse Weather, Abrasion & Corrosion • Extreme Adhesion to Substrate • Extremely Durable Wear Surface • No Top-Coat necessary • Contains No Zinc, Lead or Chromates • Typical Applications: Roofs, metal buildings, ducts, concrete walls, basements, etc.
<p>APPLICATION METHODS</p>	<p>QproTECH QP-6400 may be applied by brush, roller, or spray.</p> <ul style="list-style-type: none"> • Surfaces should be free of loose rust, mill scale, paint, grease, oil, loose Portland cement and any other film-forming foreign material. • An example of the prep work needed is to water blast with high-pressure (3,000 psi MIN) water to thoroughly clean off all debris, dirt, loose rust, mill scale, paint, grease, oil, loose Portland cement and any other film-forming foreign material and other contaminates. • The end result is to have a clean tight solid cured substrate by whatever means is necessary for the given particular application. • Optimum results are obtained if the surface is dry -- although entirely satisfactory protection may be obtained if the surface is damp. • Surplus water should be removed to prevent excessive bubbling of the coating. • Applied properly, one 13.3 mil wet coat dries to 10 mils making it impervious to water, providing for unsurpassed insulative properties and flexibility. • Millage is dependent upon application when covering old corroded metal in that the tight rust can't be taller than the coating is thick. The coating must cover all of the peaks of the rust. • However, No primer is needed on metal surfaces, thereby reducing total job cost. Airless spray is the most efficient application method for larger projects. Brushes and rollers may be used for detail work such as edge termination, filling of voids, pinholes, and small cracks.
<p>MIXING (See section on next page** for faster production application)</p>	<p>Prior to combining Part A and Part B,</p> <ul style="list-style-type: none"> • Mechanically mix Part A pail and Part B pail for 2 minutes, before blending the ingredients – Note Part A may appear clear, but when properly mixed it should become cloudy or milky in appearance. • It is imperative to mix Part A very well to product cure. • Thoroughly mechanically combine and mix at a (4 to 1 ratio) 4 Parts “B” with 1 Part Activator (part “A”), <ul style="list-style-type: none"> - for 5 minutes minimum in the 5 gallon pail - or for 1 minute minimum in one gallon pail. • Use a power mixer until all streaks and/or lumps disappear and the mixture has uniform color and consistency. • Be sure to allow mixing blade to rub on sides and bottom of container to recombine any settling. <p>Allow to stand (or ingest) for 45 minutes to one hour before using or adding any thinner.</p> <ul style="list-style-type: none"> - Use of thinner increases possibility of sag and reduces dry film thickness. - Thinner also retards cure time. - For best results, use just as it comes from the pail. - However, if thinning is required (use MEK or new lacquer thinner) it can be added to the product with no harm to the coating. - Thinning will necessitate applying more coats to achieve the desired mil thickness. - Any overspray cleaning and/or equipment cleaning - must be cleaned immediately with acetone, toluene, xylene, or MEK.

TECHNICAL DATA SHEET



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** IF A FASTER CURE AND APPLICATION IS NEEDED	<p>When application and cure time is critical for continuous product of pipe or other flat surfaces, it is suggested to consider;</p> <ul style="list-style-type: none"> • The use of a plural component spray system (with pre-heaters) will allow for the product to set-up in minutes, if followed by a warming tunnel, full cure can be achieved in a short amount of time as well. • If pumping out of 55gal drums, barrel mixers would be needed to keep all contents in proper suspension. • No waste of pre-mixed batches, less equipment cleaning required between uses.
PRODUCT INFORMATION & AMBIENT CURE TIMES	<ul style="list-style-type: none"> • QproTECH QP-6400 is 75% solids. • Approx. Pot Life: 4 to 6 hours at 80 F. • Drying time: 1 to 2 hours at 80 F. • Curing time: Initial: 8 hours at 80 F, Complete: 3 days at 80 F. • Example: Apply 13.3 mils (.0133 inches or 0.337 mm) wet to achieve a final dry mil thickness of 10 mils (0.010 inches or 0.254 mm). • QproTECH QP-6400 will cover approximately 120 square feet (11.2 sq. meters) per gallon at 10 mils (0.254 mm) thickness. • If second coat is needed wait till first coat is tacky dry, usually one to two hours in 80 F. An example of the suggested Spray Equipment: Graco 5900 with 0.021 to 0.035 tip size with 3500 PSI capability and typically a reversible self-cleaning tip. Remove all filters from gun and hose, including bung hose. • Safety concerns: Use in well ventilated area; if that is not possible, use a NIOSH approved self-contained breathing apparatus or vapor filters on a mask. Protective gloves and safety glasses must be worn at all times. Only very high abrasion will remove the coating. Caution: With the extreme adhesion characteristics of this product all safety procedures must be followed.
STORAGE STABILITY & SHELF LIFE	<p>The shelf life of QproTECH QP-6400 is one year when stored in original, unopened container. Store containers in a well ventilated and covered area away from extreme heat and moisture. Contact your Umbrella Surface Technologies representative if you have any questions about the product or its uses.</p>
NOTES	<p>Health, safety and environmental information are provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products. Before using the product other than directed, please contact Umbrella Surface Technologies for consultation.</p>

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