

**DESCRIPTION:**

UltraGard is a high-performance acrylic urethane coating with the ability to prevent heat build-up on PVC substrates and polyurethane insulated steel doors. UltraGard is available all colors using only pigments with superior light fastness and infra-red reflectance to prevent the chalking, color change and warping of PVC substrates which can result over time from the exposure to extreme weather conditions. UltraGard conforms to AAMA certification for PVC windows and exterior steel doors. ASTM D1308 testing shows the excellent resistance to a variety of solvents, oils, gasoline and acids. ASTM G155 accelerated weathering tests indicate no change in color or of gloss will occur during the lifetime of this paint. This product can also be applied to a surface of pre-painted aluminum and fiber glass.

**CHARACTERISTICS**

<b>Film Thickness</b>	1.5-2.0 mils (37.5-50.0 microns)
<b>Solids</b>	Weight solids 48% Approx. Volume solids 38% Approx.
<b>Gloss</b>	Satin finish to high gloss
<b>Pot Life</b>	6 hrs
<b>Viscosity</b>	25-28 sec. Zahn#2 @25° C
<b>Dry Time</b>	45 min. to Touch 2hrs. to Handle Through dry : Overnight
<b>Coverage</b>	500 sq. ft. @1.5 mil dry
<b>Colors Available</b>	Gentek and most colors
<b>Shelf Life</b>	1 year

**APPLICATION SPECIFICATION**

<b>Application Temperature</b>	10-30° C
<b>Mixing Ratio/Volume</b>	Part A 5 Part B 1
<b>Reduction</b>	5-10% TGR 505
<b>Surface Preparation</b>	PVC - Acetone wash Steel - light sanding with sandpaper #320
<b>Application Equipment</b>	Conventional spray and HVLP
<b>Clean-up Solvent</b>	TRG 510

**PHYSICAL PROPERTIES**

<b>Pencil Hardness</b>	H ASTM D 3363
<b>Humidity Cabinet</b>	ASTM D 1735 1500 hours No defects
<b>Direct Impact</b>	ASTM D 4226 1.2 inch/lbs/mil minimum
<b>Cross Hatch</b>	ASTM D 3359B - 100%
<b>Heat Build-up</b>	ASTM D 4803 Does not exceed 30°C horizontal
<b>QUV Exposure</b>	UVA 340 Lamp 1500 hrs.  % Gloss retention: $\leq 90$ ASTM D 523  Color retention: $\Delta E \leq .8$ (CIE lab) ASTM D 2244  Impact retention: $80\% \leq$
<b>Exterior Durability</b>	Gloss retention $90\% \leq$ Color retention $\Delta E \leq$ (CIE lab)
<b>One Year Water Immersion</b>	No Blisters No effect on gloss, adhesion or color change
<b>Freeze/Thaw Cycle</b>	10 Cycles -30°C 8 hrs +30°C 8 hrs No effect on PVC, steel or rubber

**Note:**

The information and data stated herein is based upon our current knowledge and accelerated testing methods. In view of other factors beyond our control which may affect the application and performance of this product, it is recommended that the user carries out their own individual evaluation and testing to determine that the product is satisfactory and suitable for their intended uses and application. If any further information is required, **please consult your TruGard representative.**