



GL-2470 FR
Fire Retardant, Self Crosslinking
Clear Acrylic Sanding Sealer

1.0 MSDS Information

A material safety data sheet is readily available to all those having potential contact with the product. The MSDS should be held in file for reference purposes as specified by the OSHA Worker Right to Know Requirements.

2.0 Scope

GL-2470 FR is a waterborne, fire retardant, self crosslinking acrylic sealer that is low in volatile organic compounds (VOC's) and contains zero hazardous air pollutants (HAP's). Using this coating, it is possible to achieve Class A or Class I fire rating (ASTM E-84, NFPA No. 255). This sealer minimizes grain raise effect and exhibits excellent sandability. It dusts up well and does not clog or gum up in the sanding media or paper. The applied sealer will dry within 15 to 30 minutes under normal temperature and humidity, and it permits excellent adhesion to subsequent topcoats. It is recommended that this sealer be applied by spray, brush or vacuum coating methods, although other methods may be appropriate.

3.0 Material Properties

The following are target properties, not specifications.

3.1 Physical Properties

3.1.1	Non-Volatiles, wt. %:	44.0 – 45.0
3.1.2	pH:	7.0 – 9.0
3.1.3	Density, lb/gal:	8.30 – 8.70
3.1.4	Brookfield Viscosity, cps: (# 2 spindle, 20 rpm, 21° C)	500 - 800
3.1.5	Surface Tension, dynes/cm:	34.0 – 38.0
3.1.6	VOC, lb/gal (wt. %):	1.96 (9.34)
3.1.7	HAP, lb/lb:	Zero

3.2 Other product information

3.2.1 Recommended Wet film thickness: 3.0 mils – 5.0 mils

3.2.2 Cleanup:

wet coating	Absorb using appropriate media and use water to remove remainder with absorbent wipe. Dispose of in accordance to national, state and local regulations
dry coating	will be insoluble in water and may be disposed of as solid waste. Use acetone to clean/dissolve dry residues, remove with absorbant wipe. Dispose of in accordance to national, state, and local



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regulations.

3.2.3 Material supplied “ready to use”. In the event reduction is desired, the use of water is recommended. It is strongly suggested to contact Van Technologies for information concerning any corrective, and/or modifying actions.

4.0 Sealer Performance Data

Recommended Usage

For all wood surfaces, interior use, commonly used on window components, kitchen cabinets, furniture, doors, home accessories, etc.

Characteristics

Sealer surfaces exhibit exceptional clarity, excellent adhesion to most wood species, and excellent intercoat adhesion with most topcoats. Waterborne, low VOC and zero HAP, non-hazardous and non- flammable.

Quick Reference Table:

Characteristics	Ranking
Household Chemicals	NA – intended to be topcoated
Abrasion Resistance	NA – intended to be topcoated
Moisture Resistance	5
Build/Solids	3
Dry Time	5
Yellowing	NA – intended to be topcoated
Repairability	NA – intended to be topcoated

Key: 1 = Poor 2 = Fair 3 = Good 4 = Very Good 5 = Excellent

5.0 Process requirements:

5.1 To dry a 3.0-5.0 mil wet film thickness:

- 5.1.1 Air dry at ambient temperatures between 50° F and 90° F and relative humidity between 50% and 70% for 15 to 30 min.
- 5.1.2 May be IR/forced air oven dried using appropriate systems (contact Van Technologies for recommendations). Dry times vary relative to IR system power and may be rapid dried under 30 seconds with suitable IR energy.



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5.2 Spray Application Equipment Recommendations:

5.2.1 Spray Gun/tip Options:

- 5.2.1.1 Graco Compliant with HVLP Air Cap with 0.030 tip, 10-15 psi fluid pressure, 30 psi atomizing pressure
 - 5.2.1.2 Binks HVLP – #92 tip (0.034”), #97P air cap, 10 psi fluid pressure, 45 psi atomizing pressure
 - 5.2.1.3 DeVilbiss Compact Transtech with 1.4mm tip, #510 air cap, 2 psi fluid pressure, 15 psi atomizing pressure
 - 5.2.1.4 DeVilbiss Compact HVLP with 1.4mm tip, #506 air cap, 2 psi fluid pressure, 10 psi atomizing pressure
 - 5.2.1.5 May be also applied by Airless and Air-Assisted Airless technologies
- ** Do not apply when ambient temperature is < 50 F**

5.3 Shipping/Stacking of Parts:

Parts may be stacked and packaged immediately after dryness and return to ambient temperature.