



Product Information

Chemguard II

431-70XX

PRODUCT DESCRIPTION

431-7020	-	Low Gloss
431-7035	-	Satin Gloss
431-7050	-	Semi-Gloss
431-7090	-	Full Gloss

This is a fast building pre-catalyzed Reactive Amino Coating (RAC) due to its high solid content (17.23% volume). Chemguard II is recommended for office and household furniture, kitchen cabinets, as well as many other interior wood applications.

Chemguard II is a one component, high solids pre-catalyzed coating.

FEATURES

This coating demonstrates very good moisture, household wear, household chemical, and mar resistance.

The resins used in this coating are very clear and will resist ambering when compared to competitor's pre-catalyzed coatings.

Special Recognition: Meets Kitchen Cabinet Manufacturer Association (KCMA) Standards.
Recommended: American Woodworking Institute (AWI). T.R.2.

Chemguard II is at a ready-to-spray viscosity. This coating will dry quickly and sand easily. This coating maybe catalyzed to further enhance its durability. It is not necessary to add catalyst to this product, however if a particular job calls for increased durability the addition of Chemcraft[®] catalyst may achieve that goal. Contact your coatings supplier for a recommendation.

This product does contain formaldehyde, but the quantity is below the reportable amount according to OSHA Regulation 1910.1048.

SPECIFICATION VALUES

Gloss:	As required
Flash Point:	-18°C (0°F)
Specific Gravity:	0.89
Weight per Gallon:	7.58
Solids by Weight:	23.5%
Solids by Volume:	17.23%
Fire Hazard Class:	3
Health Hazard Class:	3
Viscosity at 25°C (77°F):	19 sec z #2
VOC:	558 g/l (5.64 lb/gal)
Lbs. VOC/Gallon	4.65 lb/gal
Lbs. VOC/Lbs. Solids:	2.62
Lbs. VHAPs/Lbs. Solids:	0.972

Values at Application if Catalyzed:

Lbs. VOC/Lbs. Solids:	2.62
Lbs. VHAPs/Lbs. Solids:	0.972

If additional reducers or additives are used, compliance values must be recalculated.

SPECIFICATION INFORMATION

Shelf Life: Six months recommended if unopened and stored between 15°C - 25°C (59°F - 77°F). Always rotate stock.

Pot Life: When catalyzing, only mix enough material for a maximum of eight hours use.

Coverage: Coverage is 276 sq ft/gal at 100% transfer efficiency. Coverage will vary depending on method of application or coating thickness.

Mixing Ratio: When used as a two-component product use 100 parts by volume of 431-70XX, Chemguard II; 3 parts by volume of 873-0870 Hardener.

Reduction: This product is designed to be applied unreduced. Use Chemcraft retarder 800-5328 to slow the cure and keep the film open longer.

Sealers: This coating is intended as a self-seal product however if a sealer is desired Optiseal 431-1908, Chemseal 546-8002 are recommended.

DIRECTIONS FOR USE

Surface Preparation: Wood substrate should be sanded with 120, 150 or 180 grit steared paper prior to sanding or coating. Sealers should be sanded with 280/320 grit steared paper prior to topcoating.

The sealer should be topcoated within eight hours of sanding. Appropriate sealers are Chemcraft pre-catalyzed sealers or self-sealing. When recoating, the previous coat of Chemguard II must be sanded and the next coat applied within eight hours. Stain systems under acid containing coatings should be acid stable. The use of Chemcraft 825-80XX Easywipe stains or 891-73XX NGR stains is recommended. Chemguard II cannot be used on metal, old oil or cellulose lacquers.

Directions for Use: Agitate material before use. Always mix Chemguard II while adding catalyst and reducers in the recommended mixing ratios. Chemguard II must be agitated thoroughly at all times to ensure product consistency and consistent gloss.

Apply at 3-5 mils wet on sanded substrate. Further coats may be applied after complete drying followed by sanding with 280/320 grit steared paper. The second and subsequent coats must be applied the same day as the sub-straight is sanded. Contact with metal surfaces should be avoided.

Maximum film build of Chemguard II should not exceed 4 mils dry. Maximum film build of total coating system must not exceed 4 mils dry.

The customer is responsible for following the recommended application procedures. Failure to adhere to the recommendations given in this Technical Data Sheet will likely result in unsatisfactory film appearance or film failure.

The completed coating system should be checked for required properties prior to start-up of production.

APPLICATION

Method of Application:	Viscosity	Wet Film	Dry Film
Spray - Conventional			
- Airless	18-20", Z #2	3 - 5 mils	0.6 - 1.0 mils
- HVLP			
- Curtain Coater	19", Z #2	3 - 5 mils	0.6 - 1.0 mils

All measurements recommended are based on results at temperatures of 68°F. Viscosity will vary depending on the temperature of the liquid.

Drying Times:

At 68°F (Minimum Required)	At 120°F	(Minimum Required)
Tack Free: 10-15 mins	Tack Free:	Flash off before entering oven
Dry to Sand: 30 minutes	Dry to Sand:	15-20 mins
Dry to Stack: 3 hours	Dry to Stack:	60-90 mins

Note: Dry times are generally affected by film build, porosity of substrate, air movement, heat, and humidity. Temperatures are based on actual board temperature. This may vary depending on length of time for boards to reach these temperatures.

Clean-Up: Use 803-1298 Thinner.