

INNOVAT™ CLEAR

DM5329-00XX (20,40,60,90 Sheen) **BE-1108XX**

Becker Acroma

DESCRIPTION

Innovat is a fast drying, acid cured conversion varnish. Known for extremely high solids at the gun tip, Innovat is one of the fastest build products on the market. Innovat is self sealing, has a very soft, silky feel, and excellent clarity. Innovat is non-yellowing and very low in HAPs. It creates an extremely tough durable finish with outstanding moisture and chemical resistance. Innovat is a low formaldehyde product and passes KCMA.

HIGHLIGHTS

- » **Quick Build, Fast Drying**
- » **Extremely Durable**
- » **Excellent Scratch Resistance**
- » **Soft Silky Feel**
- » **Outstanding Chemical Strength**
- » **Water White, Non-yellowing**
- » **Self Sealing, Easy to Sand**
- » **Excellent Moisture Resistance**
- » **Low in Formaldehyde**

PRODUCT DATA:

| | | | |
|------------------------|--------------------------|----------------------------|----------------------------------|
| Colour: | Wet: Clear Dry: Clear | VOC: | 478 g/l or 3.99 lbs/gal |
| Solids % by Vol.: | 44 % (Theoretical) | Lbs. VOC / Lbs. Solids: | 0.94 before catalyzed |
| Solids % by Wt.: | 52 % (Theoretical) | Lbs. VHAPs / Lbs. Solids: | 0.39 before catalyzed |
| Weight / Gal.: | 8.26 lb | Flash Point (PMCC): | 13° C / 55.4° F |
| Spec. Gravity: | 0.99 | Frost Sensitivity | No |
| Viscosity 25°C / 77°F: | #4 Ford: 25-27 Sec. | Photo Chemically Reactive: | Yes |
| Viscosity 25°C / 77°F: | DIN 4: 18-20 Sec. | Shelf Life: | 1 year (at 15-25° C / 59°-77° F) |
| Viscosity 25°C / 77°F: | Zahn #2 sig.: 27-29 Sec. | Theo. Coverage@1mil dry | 704 Sq. Ft./Gal. 100% Efficiency |

MIXING / APPLICATION:

Working Temp: >18° C, 65° F substrate, coating and air
Catalyst: 2750 Standard: 494 Slow :309 Haps Free Fast
Catalyzation: 12% Parts by volume
Pot Life: 8 hrs. (23° C / 74° F)
Mixing: Mix thoroughly to ensure uniform consistency. Add Catalyst under Agitation then add solvent to adjust viscosity if necessary
Sealer: Can be used as a self seal system or Care Seal FF5310 or Care Seal HS FF5320
Reducer: Thinner 219 - Regular; Thinner OC 140 - Fast; Thinner 309 - Haps Free, Thinner 419 – Slow, Haps Free
Application: 75 - 100 (g/m²) Approx.3- 4 wet mils
Surface Prep: Substrate should be clean and free of grease and oil. Moisture content of the wood should be between 6%-8%. White Wood sanding with 180 grit sandpaper. Sand the first coat (with 280 to 320 paper) in order to eliminate grain raising, if any, and improve adhesion of the subsequent coat. Topcoat within 8 hours of sanding.
Use Directions: For interior use only. Mix thoroughly before application. Stack only when the surface temperature is below 35° C / 95 ° F. Quicker stacking times are achievable relative to the amount of product that is applied.
App. Equip.: Conventional & HVLP Siphon Feed and Pressure Pot Systems and Airless Air Assist Equipment.
Tinting: Can be tinted with Arti dye concentrates, Arti pigment concentrates and 844 / 844X colorants. All to a maximum of 5% total colourant. Prior to application test a sample piece to assure proper color match.
Ind. Standards: This product meets the quality standard Conversion Varnish Transparent for AWI. It also meets KCMA and CKCA standards.

DRYING TIMES TO SAND / STACK:

| Method | Drying Temp. | Drying Time (@ 60 % RH and thickness @ 1 mil dry) |
|----------------|----------------|---|
| Air Drying | 20° C / 68° F | 2-3 hr. dry to sand / 2 -3 hr. dry to stack |
| *Forced Drying | 70° C / 158° F | 20-30 min. dry to sand / 1 – 2 hr. dry to stack |

APPLICATION RECOMMENDATIONS:

APPLICATION EQUIPMENT SETTINGS

| Method of Application | Wet Film | | Dry Film | |
|-----------------------------|------------|---------------------------|----------------|-----------------|
| | Mils | g/m ² | Mils | Microns |
| Conventional – Siphon Fed | 3 – 4 mils | 75 - 100 g/m ² | 1.2 – 1.6 mils | 30 – 40 microns |
| Conventional – Pressure Pot | 3 – 4 mils | 75 - 100 g/m ² | 1.2 – 1.6 mils | 30 – 40 microns |
| Airless Air Assist | 3 – 4 mils | 75 - 100 g/m ² | 1.2 – 1.6 mils | 30 – 40 microns |
| HVLP - Siphon Fed | 3 – 4 mils | 75 - 100 g/m ² | 1.2 – 1.6 mils | 30 – 40 microns |
| HVLP - Pressure Pot | 3 – 4 mils | 75 - 100 g/m ² | 1.2 – 1.6 mils | 30 – 40 microns |

All measurements recommended are based on results at temperatures of 68°F. Viscosity will vary depending on the temperature of the liquid. The above mentioned application equipment recommendations are guidelines only. The noted settings are starting point recommendations and that adjustment to the settings and equipment may be needed to obtain the desired results. Please refer to your specific equipment manufacturer's recommendations for equipment set up.

REDUCTION – TIP SIZE – PSI SETTINGS

Conventional Equipment Siphon Feed:

Reduce to 18-21 seconds #4 ford viscosity cup, nozzle size 0.070 inches (1.8mm) – 0.0 inches (2.0 mm), atomizing air 40 psi (2.8bar)–50 psi (3.5 bar).

Conventional Equipment Pressure Pot:

Reduce to 18-21 seconds #4 ford viscosity cup, nozzle size 0.472 inches (1.2mm) – 0.055 inches (1.4 mm), atomizing air 40 psi (2.8 bar)–50 psi (3.5 bar), Pot pressure 7 psi (0.48 bar) to 10 psi (0.68 bar)

Airless Air Assist Equipment:

Reduce to 18-25 seconds #4 ford viscosity cup, tip size .011 inches (0.28mm) - .013 inches (0.33mm), fluid pressure 290 psi (20 bar) – 580psi(40 bar), atomizing air 11psi (0.8 bar) to 17psi (1.2 bar).

HVLP Equipment Siphon Feed:

Reduce to 17-21 seconds #4 ford viscosity cup, .061inch (1.5mm) -.072inch (1.8MM) nozzle, atomizing air 35psi (2.4bar) -45 psi (3.1bar).

HVLP Equipment Pressure Pot:

Reduce to 17-21 seconds #4 ford viscosity cup, 0.472 inches (1.2mm) – 0.055 inches (1.4 mm) nozzle, atomizing air 20psi (1.37 bar) -25 psi (1.72 bar). Pot pressure 7 psi (0.48 bar) to 10 psi (0.68 bar)

PRODUCT NOTES

- Retarder 0987: Max. 2% For Trapped air, Blushing and Orange Peel.
- Thinner 419: Good flow and leveling
- Reduces viscosity quickly.
- Do not catalyze in an unlined metal container.
- Gloss may vary when recoating.
- Maximum recommended dry film thickness for total coating system is 6 dry mils.
- Can be used over WB Stain Systems and Solvent Base Stain Systems.

CONTACTS:

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TESTING: Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.

FOR INDUSTRIAL SHOP APPLICATION: Thoroughly review Material Safety Data Sheet (MSDS) for safety information and cautions prior to using this product. For Regulatory compliance data i.e. VOC, HAPS, etc., obtain an Environmental Data Sheet (EDS) prior to using the product. A MSDS and/or EDS is available from your local distributor or representative. Please direct any questions or comments to 1-800-524-5979.

NOTE: Product Data Sheets are periodically updated to reflect new information relating to the product. It is important that the customer obtain the most recent Product Data Sheet for the product being used. The information, rating, and opinions stated here pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in customer handling and methods of application which are not known or under our control, The Sherwin-Williams Company cannot make any warranties as to the end result.