

# CARE SEAL™ HS

FF5320 BE-032005

Becker Acroma

## DESCRIPTION

Care Seal HS is a HAPs free is a two pack solvent borne sealer for most wood substrates. Formulated to give off low formaldehyde emissions during the application and drying process and from the dried film. In addition Care Seal HS gives good build on vertical spray applications. An excellent sealer for most Becker Acroma acid cure clear coats.

## HIGHLIGHTS

- » **High Solids**
- » **Excellent Sand Ability**
- » **Excellent Vertical Spray**
- » **Very Good Light Stability**
- » **Fast Drying**
- » **HAPs Free Solvent**

## PRODUCT DATA:

Colour:	Wet: Clear Dry: Clear	VOC:	616 g/l or 5.13 lbs/gal
Solids % by Vol.:	30 % (Theoretical)	Lbs. VOC / Lbs. Solids:	1.71 before catalyzed
Solids % by Wt.:	37 % (Theoretical)	Lbs. VHAPs / Lbs. Solids:	0 before catalyzed
Weight / Gal.:	8.14 lb	Flash Point (PMCC):	-4° C / 24.8° F
Spec. Gravity:	0.97	Frost Sensitivity	No
Viscosity 23°C / 73°F:	#4 Ford: 27-32 Sec.	Photo Chemically Reactive:	No
Viscosity 23°C / 73°F:	DIN 4: 20-24 Sec.	Shelf Life:	1 year (at 15-25° C / 59°-77° F)
Viscosity 23°C / 73°F:	Zahn #2 sig.: 29-35 Sec.	Theo. Coverage@1mil dry	480 Sq. Ft./Gal. 100% Efficiency

## MIXING / APPLICATION:

**Working Temp:** >18° C, 65° F substrate, coating and air  
**Hardener:** 2750 Regular Solvent; 309 HAPs Free Solvent  
**Catalyzation:** 10% Parts by volume  
**Pot Life:** 8 hrs. (23° C / 73° F)  
**Mixing:** Mix thoroughly to ensure uniform consistency mixing before and after adding hardener. Avoid over mixing which may introduce air into the product.  
**Reducer:** Thinner 219 - Regular; Thinner OC 140 - Fast; Thinner 309 - Haps Free, 419 Thinner – Slow, Haps Free  
**Application:** 80 - 100 (g/m<sup>2</sup>) Approx. 3-4 wet mils; Min 3 mil wet –Max 5 mil wet @ 60%RH  
**Surface Prep:** Substrate should be clean and free of grease and oil. Moisture content of the wood should be between 6%-8%. 150 grit on open grain and 180 grit on closed grain wood. Always sand the sealer-coat within 8 hours prior to top-coating to improve adhesion.  
**Use Directions:** For interior use only. Add hardener and 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, Gravity Feed and Pressure Pot Systems and Airless Air Assist Equipment.  
**Tinting:** Can be used with 844 colourants. Do not exceed 5% black or blue. All other colours can be used to a maximum of 10%. Do not exceed 10% total colourant. Prior to application test a sample piece to assure proper color match.  
**Ind. Standards:** This product meets the quality standard Catalyzed Vinyl Transparent for AWI. It also meets KCMA and CKCA standards.

## DRYING TIMES TO SAND:

Method	Drying Temp.	Drying Time (@ 60 % RH and thickness @ 1 mil dry)
Air Drying	20° C / 68° F	30-40 min. dry to sand
*Forced Drying	70° C / 158° F	5-10 min. dry to sand

**APPLICATION RECOMMENDATIONS:**

**APPLICATION EQUIPMENT SETTINGS**

Method of Application	Wet Film		Dry Film	
	Mils	g/m <sup>2</sup>	Mils	Microns
Conventional – Siphon Fed	3 – 5 mils	75-125 g/m <sup>2</sup>	0.9-1.5 mils	22.5-37.5 microns
Conventional – Pressure Pot	3 – 5 mils	75-125 g/m <sup>2</sup>	0.9-1.5 mils	22.5-37.5 microns
Airless Air Assist	3 – 5 mils	75-125 g/m <sup>2</sup>	0.9-1.5 mils	22.5-37.5 microns
HVLP - Siphon Fed	3 – 5 mils	75-125 g/m <sup>2</sup>	0.9-1.5 mils	22.5-37.5 microns
HVLP - Pressure Pot	3 – 5 mils	75-125 g/m <sup>2</sup>	0.9-1.5 mils	22.5-37.5 microns

All measurements recommended are based on results at temperatures of 23°C/ 73°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) – 0.079 inches (2.0 mm), atomizing air 30 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 15 psi (0.68 bar)

**Airless Air Assist Equipment:**

Reduce to 18-25 seconds #4 ford viscosity cup, tip size.011inches (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 15 psi (0.68 bar)

**PRODUCT NOTES**

- Provides good build for vertical spray.
- Very good light stability.
- Formulated with HAPS free solvents.
- Excellent sealer for use with most of Becker Acroma's acid cure clear coats.
- Over catalyzing may result in blooming, cracking and poor adhesion.
- Maximum recommended dry film thickness for total coating system is dependent on the topcoats used.

**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.