



PRODUCT DATA SHEET

FUHR Self-Seal Waterborne Urethanes

APPLICATIONS:

- Kitchen and Bath Cabinets
- Residential and Commercial Furniture
- Interior Wood Products where a Fast Building Finish Providing Excellent Durability is Desired
- Exterior Wood Entry Doors
- Wood Flooring

FEATURES:

- Ready-to-Spray (no reduction required)
- Fast Drying
- Self-Sealing
- Water Clear
- High Solids
- Can be Catalyzed for additional Chemical Resistance
- Spray Applied (Conventional, Airless, AAA or HVLP)

BENEFITS:

- HAPS-Free
- Superior Film Build and Vertical Hang
- Excellent Clarity
- Excellent Durability
- Excellent Print Resistance
- Excellent Taber Abrasion Resistance
- Meets or Exceeds KCMA Performance Specifications

PERFORMANCE:

- Chemical: KCMA Household – Pass
- Cold-Check: 20 Cycles – Pass
- Moisture: KCMA Edge-soak – Pass
- Print: 2 PSI 18 Hour Ambient – No Visual Effect
- Adhesion: Cross-Hatch – Pass
- S33 Taber Abrasion – 110 cycles

COMPANION PRODUCTS:

- FUHR Self-Seal Waterborne Urethane (260 series)

PRODUCT NUMBER	DESCRIPTION
260-20	Low Sheen
260-40	Satin
260-55	Semi-Gloss
260-75	Gloss

PHYSICAL PROPERTIES AND SPECIFICATIONS

Technology	Waterborne
Color:	Clear
Viscosity	13-15 #4 Zahn @77°F (25°C)
WPG	8.6 lb/gal
Solids by Volume	28.5 – 30.7%
Solids by Weight	32.1 – 34.4%
Flash Point	>200 F (>93 C)
HMIS	1, 1, 0, X
Coating VOC (Lb./Gal. as packaged)	1.99 Lb./Gal.
Coating VOC (g/l as packaged)	238.8 g/l
VHAP Ratio (#VHAP/#NVM)	0.05 (HAPS-Free)
Spread Rate	493 Sq. Ft./Gal. @ 1.0 Mil DFT (No Loss)
Catalyst/Ratio	M60C0142 / 2 Oz./Gal.
Reducer	Max. 10% by Vol. with DI Water
Retarder	N/A
Air Dry	15 Minutes to Dust-Free / 60 Minutes to Sand or Recoat
Oven Dry	5-8 Minute Flash / 15 Minutes @ 125°F (52°C)
Shelf-Life (Unopened)	12 Months
Pot-Life (Catalyzed)	24 Hrs. Maximum

The data on this sheet are calculated values (as formulated) and will not represent exact values for every product. MSDS and CPDS sheets are available upon request. Drying times and viscosities reported are as tested under laboratory conditions (77°F (25°C)) with relative humidity of approximately 45%. Changes in temperature and humidity will affect product data. The following definitions are being utilized for HAP content: "HAPS-Compliant": < or = .8 lb. HAPS/Lb. Solids; "Low-HAPS": <.5 Lb. HAPS/Lb. Solids; "Ultra-Low-HAPS": <.2 Lb. HAPS/Lb. Solids; "HAPS-Free": <.05 Lb. HAPS/Lb. Solids. HAP content is based upon the presence of HAP compounds utilizing limits as defined in 29 CFR 1910.1200. Manufacturer assumes no liability for use of this information which is intended to serve as a general guide.

It is the user's responsibility to verify product compliance with all applicable regulations or permits before proceeding with use. Always pretest finishing products to verify suitability to the desired use before proceeding with any application. Manufacturer makes no warranties, express or implied, including (but not limited to) warranties of merchantability and fitness for particular purposes. Manufacturer will not be liable for any incidental, consequential or special damages or losses derived, directly or indirectly, from or as a consequence of purchaser's use of this product.

Performance data is based upon laboratory testing conducted by Chemical Coatings, Inc., as applied under ideal laboratory conditions. Since substrate, environment and application are all significant factors in actual product performance, this information should serve only as a general guide. KCMA refers to the Kitchen Cabinet Manufacturer's Association recommended cabinet performance testing. (Please contact the association at www.kcma.org for additional information.)

FINISHING RECOMMENDATIONS

SURFACE AND COATING PREPARATION

Proper preparation of wood substrate and finishing materials are critical to achieving consistent results. Wood substrate must be properly sanded with 150 to 180 grit non-stearated, aluminum oxide sandpaper (recommended minimum) and verified to be contaminant and dust-free and of appropriate moisture content (recommended 6-8%) before any finishing is completed. Finishing materials should always be normalized to interior application environment before use and should be stirred or agitated to ensure full incorporation of components before use and continuously during use.

APPLICATION INSTRUCTIONS

If toning or staining of the substrate is desired, choose an approved FUHR Color system and refer to the Product Data Sheet for detailed use instructions. FUHR Waterborne Urethane is approved and recommended for self-sealing. For maximum clarity, seal with FUHR Self-Seal Waterborne Gloss Urethane. Refer to Product Data Sheet for detailed use instructions. While under agitation, catalyze at 2 fluid ounces/full gallon with M60C0142 ENDURAGREEN WB Catalyst. Allow catalyst to stabilize in solution for a minimum of 15 minutes before application. If reduction or retarding is necessary, it should always be completed after catalyzation and in accordance with recommendations detailed under Physical Properties and Specifications. Only catalyze the FUHR Waterborne Urethane where high chemical resistance is required. DO NOT CATALYZE this material when applying the finish to Exterior Doors or Wood Flooring. For maximum UV and wear resistance, apply 3 coats of un-catalyzed coating to wood entry doors and wood flooring.

After sealing, finish using FUHR Self-Seal Waterborne Urethane. Choose the desired sheen from the series and agitate well before application. DO NOT SHAKE. If reduction or retarding is necessary, follow recommendations detailed under Physical Properties and Specifications.

Verify the surface to be coated is clean, dust-free and properly sanded. Apply coating in even coats of 3-4 wet mils. Follow dry time to sand instructions detailed under Physical Properties and Specifications and always sand immediately before recoating. Even sanding with 280-320 grit non-stearated, aluminum oxide paper (minimum) is recommended between finish coats.

This system's total dry film thickness should be a minimum of 2.2 mils dry film thickness and should not exceed 4 mils dry film thickness. Lower or higher film builds may result in reduction of the performance properties and clarity of the system. Care should be exercised to ensure total dry film thickness is consistently within recommended range. Stainless steel pressure pots or pipes are recommended for all waterborne products. At a minimum, plastic liners should always be used if pots are mild steel. Lines and pots must be flushed a minimum of daily and product should never be stored in equipment due to skinning and drying issues.

ADDITIONAL INFORMATION

All drying times listed are as tested under laboratory conditions (77°F (25°C) with relative humidity of approximately 45%). Products are recommended for use under controlled conditions where temperature does not fall below 55°F (13°C) or exceed 90°F (32°C). FUHR recommends against use under abnormal conditions of extreme temperature or humidity which may adversely affect product performance.

This product is formulated for professional use in controlled environments and is intended for interior application and use only. It is not recommended for use on flooring. Due to variations in substrate, environment, application and test methods, CCI/FUHR recommends evaluating all products for applicability, compatibility and conformance to individual specifications before proceeding with use. CCI/FUHR recommends strongly against mixing of products (including solvents) from alternate suppliers or of deviations from finishing recommendations.

CLEAN-UP AND STORAGE

Water is recommended for basic flushing and cleaning of equipment. If a more stringent cleaner is required, refer to regulations for specified qualities necessary in a cleaning thinner and verify compliance with all applicable regulations or permits before proceeding with use of any product. Empty containers, application equipment and clean-up materials may contain product residue and must be disposed of in a safe and compliant manner. Always store products in a cool, dry and temperature controlled environment. Inspect all containers to make certain they are tightly sealed when not in use. Do not store products in areas where they may be exposed to heat or sparks. Refer to Material Safety Data Sheet (MSDS) and product labeling for additional safety and handling information.

PRODUCT CARE

For extending product life, always avoid the use of detergents, cleaners and household chemicals known to be detrimental to wood finishes. For general care and maintenance, clean only with approved materials and soft polishing cloths. For best results, CCI/FUHR recommends using Mohawk Finishing Products or Guardian Protection Products wood care products as directed.

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