

423-34XX Acquaduro™ Clear 2K Polyurethane Waterborne Topcoat

Product codes:	423-3405	Viscosity	Zahn #2 Signature cup 31-35 sec at 77°F (25°C)
	423-3410		Zahn #3 Signature cup 14-18 sec at 77°F (25°C)
	423-3420		
	423-3435		
	423-3450		
	423-3480		
		Flash Point:	> 200°F (93.3°C)
		Density (lb/gal):	8.77
		Solid (% by weight):	35.7
		Solid (% by volume):	31.8
		Shelf Life (months):	12

Product Description:

Acquaduro™ is a clear 2K polyurethane waterborne topcoat for industrial application. This product provides excellent water and chemical resistance and has high build and excellent feel and appearance. In addition to the enhanced durable features, our 2k waterborne polyurethane topcoat is easy to apply, offers great sandability and has no recoat window. Whether you are at a finishing shop or at a professional on-site job this low VOC and low odor product meets or exceeds industry standards.

Uses:

Acquaduro™ Clear 2K Polyurethane Waterborne Topcoat has been designed for the cabinet, architectural millwork, furniture and refinish markets.

Environmental Data (as supplied):

VOC less exempt lb/gal:	1.38
VOC lb/gal:	0.53
VOC less exempt g/l:	165.36
VOC g/l:	63.51
VOC lb/lb Solid:	0.17
VHAPs lb/lb Solid:	0.00

Note:

N/A

Application Data

Suggested Uses:	For cabinet, architectural millwork, furniture, refinish markets.
Mixing Ratio:	8% by volume of 876-3400 Hardener **See Application Data Notes section for additional mixing information**
Pot Life:	4 hours at 77°F (25° C)
Application Viscosity:	Zahn #2 Signature cup 45-50 sec at 77°F (25° C) Zahn #3 Signature cup 20-25 sec at 77°F (25° C)
Reducer:	Water up to 10% by volume
Retarder:	870-1358 1 to 3% by volume
Clean-up Solvent:	Water
Recommended Wet Film:	5-6 wet mils
Coverage:	510 sqft/gal

Note:

?Polyurethane base should be thoroughly mixed first then Hardener must be Slowly added during agitation, product

must be mixed for 1-2 minutes.

Customer must wait 5 minutes for “induction time” before usage. Mix only what you can use for 1 to 2 hours at a time.

Directions for use:

Surface Preparation:

Substrate must be sanded using 120, 150 or 180 grit paper prior to staining or coating. Sealer should be sanded with 280/320 grit paper prior to being coated, The sealer should be coated within eight hours of being sanded. Self-seal is recommended. When recoating, the previous coat of the Acquaduro™ Clear 2K Polyurethane Waterborne Topcoat must be sanded and the next coat applied within eight hours of being sanded. Recommended stain systems include Promatch Aqua and Promatch C-Mix.

General Information:

**After mixing part A and part B to the correct ratio, water can then be added to reduce viscosity prior to application as needed depending on spray equipment. A maximum of 10% water can be add to the fresh (immediately after the part B is fully dispersed into part A) catalyzed material.

Note: Adding extra water during application **is not recommended** as this will have a direct impact on the pot life. The pot life of the mixture will be reduce significantly and the mixture will gel quickly.

The mixed product contains 876-3400, an isocyanate based co-reactant. Please follow all precautions associated with handling and use of those materials. Refer to MSDS for detail information. Product must be thoroughly stirred before adding the hardener in the recommended ratio. Oil stains must be avoided because they will interfere with the adhesion. The viscosity of the product should be monitored after mixing with the hardener. The relative humidity in the application and drying room should not exceed 75% for maximum coating performance.

THE CUSTOMER IS RESPONSIBLE FOR FOLLOWING THE RECOMMENDED APPLICATION PROCEDURES. FAILURE TO ADHERE TO THE RECOMMENDATIONS GIVEN IN THIS DATA SHEET WILL LIKELY RESULT IN UNSATISFACTORY FILM APPEARANCE OR FILM FAILURE. THE COMPLETE COATING SYSTEM SHOULD BE CHECKED FOR REQUIRED PROPERTIES PRIOR TO THE START-UP OF PRODUCTION

Drying Times:

	Room Temperature (68°F)	Forced Drying Schedule (122°F)
Tack Free Time:	20 minutes	10 minutes
Dry to Sand:	45 minutes	20 minutes
Dry to Stack:	24 hours	30 minutes

Note:

N/A

Dry times are greatly affected by film build, porosity of substrate, air movement as well as heat and humidity. Temperatures are based on actual board temperature. This may vary depending on length of time for boards to reach these temperatures. Minimum curing temperatures of 64°F/18°C must be maintained throughout the curing cycle to achieve the film integrity as stated in product features.

These products are designed for industrial use only. AkzoNobel views safety as a top priority. Please refer to Material Safety Data Sheet for information on the safe use of this product.

Values shown are calculated estimates and should not be construed as product specifications. We cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and users assume all responsibility and liability for loss or damage arising from the use of our products whether used alone or a combination with other products. Use of unapproved or reclaimed solvent blends may reduce film properties and is not recommended.

Akzo Nobel Coatings, Inc
1431 Progress Ave
High Point, NC 27260
336-841-5111

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