



Bayhydrol[®] UA 2961

Characterization Bayhydrol UA 2961 is a waterborne aliphatic polyurethane/acrylate.

Form supplied Approximately 43% in water

Characteristic data*

Property	Value	Unit of measurement	Method
Viscosity at 25°C	< 100	mPa*s	
Non-volatile content (1 g/1 h/125°C)	41.5 - 45	%	
pH (supply form)	7.4 - 8.5		

*These values are provisional. Binding supply specifications will not be available until the final product data sheet is published.

Other data**

Property	Value	Unit of measurement	Method
Appearance	Milky White		
Weight per gallon 25°C	8.9	lb/gal	

**These values provide general information.

Formulating Information

Bayhydrol UA 2961 must be formulated with coalescing solvents to form a uniform film. Utilizing solvents at approximately a minimum of 10% on resin solids will provide optimal film formation. Suitable coalescing solvent examples include: Dipropylene Glycol n-Butyl Ether (DPnB), Dipropylene Glycol Methyl Ether (DPM), Propylene Glycol n-Butyl Ether (PnB), and Propylene Glycol n-Propyl Ether (PnP).

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Film Properties

Physical Performance Properties (AAMA 614-20/615-20) of Pigmented Coating Film on PVC substrate.

Test Method	Result
Dry Adhesion	Pass
Wet Adhesion	Pass
Boiling Water Adhesion	Pass
Pencil Hardness	2H
Detergent Resistance	Pass
Mortar Resistance	Pass
Window Cleaner Resistance	Pass
Muriatic Acid Resistance	Pass
Impact Resistance	160 inch-lbs
Falling Sand Abrasion Resistance	>40 L/mil
Humidity Resistance	4000 hrs.

(Formulation 57864-B)

The system was spray applied on PVC panels at a target dry-film thickness of 1.5 mils. Panels were initially wiped with acetone prior to coating application for performance testing. The panels were allowed to flash dry at ambient conditions and dried at 50°C for 10 min. All testing was conducted after an additional seven-day rest at ambient temperature.

Adhesion Characteristics

Substrate	Adhesion Rating
PVC (Polyvinyl chloride)	5B
Fiberglass composite	4B
PC (Polycarbonate)	5B
ABS (Acrylonitrile Butadiene Styrene)	5B
PC/ABS	5B
Pretreat aluminum (Chromate)	5B

Adhesion was tested according to ASTM D 3359, method B crosshatch test.

Properties / Applications

Bayhydrol UA 2961 can be used in the formulation of ambient-cure or bake coatings for a wide range of rigid and flexible substrates such as wood, metal, fiberglass, vinyl, and other plastic substrates. This product has been developed to exhibit a combination of film hardness, flexibility, good water and abrasion resistance, and excellent chemical and solvent resistance. As with any product, use of Bayhydrol UA 2961 in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.



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Storage	Bayhydrol UA 2961 should be stored in tightly sealed original containers and protected from freezing, heat, and foreign materials. In order to maintain product uniformity, protect from freezing. The containers must be tightly closed to prevent the evaporation of water and the introduction of contaminants that can adversely affect processability. Recommended storage temperature is 5° – 40°C.
Storage time	Bayhydrol UA 2961 has a shelf life of six months from date of receipt at customer, provided the material is stored in sealed original containers at the recommended storage temperature.
Other Information	Bayhydrol [®] is a registered trademark of the Covestro Group.
Health and Safety Information	Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling this product. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets and product labels. For further information contact your Covestro LLC representative or the Product Safety and Regulatory Affairs Department in Pittsburgh, PA.
Important	This is a Trial Product of which we do not yet have extensive experience. No guarantee can therefore be given regarding the behaviour of the product during processing or use.

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you utilize our products, technical assistance and information to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

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Document contains important information and must be read in its entirety.

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 **Bayhydrol[®]**

Product Datasheet