

# Bayhydrol<sup>®</sup> UA 2856 XP

## Characterization

Bayhydrol UA 2856 XP is an aliphatic, acrylate-modified polyurethane dispersion.

It is suitable as a binder for waterborne, air- and oven-drying basecoats in two-layer systems for automotive coatings, coatings for plastics, automotive refinishing coatings, industrial coatings and stone chip functional coatings.

## Form supplied

Bayhydrol UA 2856 XP is supplied approximately 35% in water (neutralized with 0.7% dimethyethanol amine - bound as salt).

## Characteristic data\*

Property	Value	Unit of measurement	Method
Viscosity at 23°C, D = 40 s <sup>-1</sup>	≤ 100	mPa•s	
Non-volatile content (1 g/1 h/125°C)	34 - 36	%	
pH 10% in demineralized water	6.5 - 8.0		

\*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
Density at 20°C	approx. 1.04	g/cm <sup>3</sup>	
Appearance	Dispersion		

\*\*These values provide general information.

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## Compatibility

Bayhydrol UA 2856 XP is generally compatible with melamine resins, as well as with water-reducible polyesters and acrylic dispersions. Given the many resins available on the market, compatibility testing is recommended.

## Properties / Applications

When used in two-layer systems with TSA and two-component polyurethane clearcoats, metallic basecoats formulated with Bayhydrol UA 2856 XP are characterized by even, cloud-free films with a very good flop effect, excellent gloss and good hiding power.

The metallic basecoat can be oversprayed with TSA or two-component polyurethane clearcoats after pre-drying e.g. for 5 min at an oven temperature of 80°C. Based on its high flexibility Bayhydrol UA 2856 XP is also suitable as a binder for coatings that are highly resistant to stone chipping, such as stone chip primers.

As with any product, use of Bayhydrol UA 2856 XP 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 2856 XP should be stored in tightly sealed original containers and protected from freezing, heat, and foreign materials. Recommended storage temperature is 5°-23°C.
Storage time	Bayhydrol UA 2856 XP has a shelf life of twelve months from date of receipt at customer, provided the material is stored in sealed original containers at the recommended storage temperature.
Other Information	Bayhydrol <sup>®</sup> is a registered trademark of Covestro.
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	<b>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.</b>

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 test 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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