

Bayhydrol[®] UH 2660

Characterization	Anionic aliphatic polyester-polyurethane dispersion, cosolvent-free. Combination binder for the formulation of water-reducible soft-feel coatings.
Form supplied	Approx. 40 % in water

Characteristic data*			
Property	Value	Unit of measurement	Method
Viscosity at 23°C spindle L2/30 rpm	< 1000	mPa.s	M092-ISO 2555
Non-volatile content (1 g/1 h/125 °C)	39 - 41	%	DIN EN ISO 3251
pH 10 % in water	6 - 8		DIN ISO 976

*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. 1.1	g/ml	DIN EN ISO 2811
Minimum film forming temperature (MFT)	< 0	°C	DIN ISO 2115

**These values provide general information.

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Compatibility

Bayhydrol[®] UH XP 2660 is generally compatible with many acrylic dispersions, polyurethane dispersions and water-reducible polyesters. Given the many resins available on the market, compatibility testing is recommended.

Properties / Applications

Bayhydrol[®] UH XP 2660 can be used as a binder in combination with hydrofunctional resins, preferably Bayhydrol[®] U XP 2698 bzw. U 2757, in the formulation of highly flexible two-component polyurethane topcoats (e.g. in soft-touch coating systems).

When crosslinking with e.g. Bayhydrol[®] 3100, force drying (e.g. 30 - 45 min at 80 °C) yields films with good surface handle, very good resistance to solvents and very good hydrolytic stability.

Processing/application

Sand and bead mills have proved suitable as grinding equipment. During grinding, the temperature of the mill base should not exceed 40 °C.

The pH of coating systems based on Bayhydrol[®] UH XP 2660 is between approx. 6.0 and 8.0 after formulation. The coatings can be applied using conventional spraying techniques. Depending on the application, drying conditions are 30 - 45 min at 80 °C.

Cleaning

After use, formulation and application equipment should be cleaned immediately or left to soak in water.

Warm water, alkaline cleaning agents or alkaline isopropyl alcohol are suitable for cleaning.

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Storage

- Storage in original sealed Covestro containers.
- Recommended storage temperature: > 0 - 40 °C.
- Protect from frost, heat and foreign material.

General information: The product is sensitive to frost. Prolonged freezing can damage the product irreversibly. Prolonged storage at higher temperatures may result in a decrease of viscosity and/or an increase of average particle size, possibly resulting in sedimentation or coagulation.

The containers must be well closed to prevent the evaporation of water which may result in the formation of a non-redispersible film.

Contamination with certain bacteria, fungi or algae may render the product unusable.

Storage time

Covestro represents that, for a period of six months following the day of shipment as stated in the respective transport documents, the product will meet the specifications or values set forth in section "specifications or characteristic data" above, what ever is applicable, provided that the product is stored in full compliance with the storage conditions set forth in and referenced under section "storage" above and is otherwise handled appropriately.

The lapse of the six months period does not necessarily mean that the product no longer meets specifications or the set values. However, prior to using said product, Covestro recommends to test such a product if it still meets the specifications or the set values. Covestro does not make any representation regarding the product after the lapse of the six months period and Covestro shall not be responsible or liable in any way for the product failing to meet specifications or the set values after the lapse of the six months period.



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Labeling and statutory requirements This product data sheet is only valid in conjunction with the latest edition of the corresponding Safety Data Sheet. Any updating of safety-relevant information – in accordance with statutory requirements – will only be reflected in the Safety Data Sheet, copies of which will be revised and distributed. Information relating to the current classification and labeling, applications and processing methods and further data relevant to safety can be found in the currently **valid Safety Data Sheet**.

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 test our products, technical assistance, information and recommendations 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 Covestro. 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.

This product is not designated for the manufacture of a medical device or of intermediate products for medical devices¹⁾. [This product is also not designated for other specifically regulated applications (e.g. including cosmetics, plant protection, fertilisers, plant strengtheners, food processing, food contact and others). If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices or for other specifically regulated applications Covestro must be contacted in advance to provide its agreement to sell such product for such purpose.] Nonetheless, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices, for Food Contact products or cosmetic applications must be made solely by the purchaser of the product without relying upon any representations by Covestro.

1) Please see the "Guidance on Use of Covestro Products in a Medical Application" document.

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 **Bayhydrol[®]**

Product Data 

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