



# Bayhydrol® UV 2282

## Characterization

Waterborne, UV-curing Polyurethane Dispersion.

In the formulation of physically drying, waterborne UV-curing wood and plastic coatings.

## Form supplied

approx. 39 % dispersion in water

## Specification

Property	Value	Unit of measurement	Method
Viscosity 23 °C, D=40s-1	< 800	mPa.s	M014-ISO 3219/A.3
Non-volatile content (1 g/1 h 125 °C)	39 ± 1	%	DIN EN ISO 3251
pH	7.75 ± 0.75		DIN ISO 976

## Other data\*

Property	Value	Unit of measurement	Method
Minimum film forming temperature (MFT)	0	°C	DIN ISO 2115
Density at 20 °C	approx. 1.06	g/ml	DIN EN ISO 2811-2
Appearance	milky, slightly colloidal		

\*These values provide general information and are not part of the product specification.



laces edition dated 2013-03-18

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## Solubility / thinnability

Bayhydrol® UV 2282 can be thinned with water.

## Compatibility

Bayhydrol® UV 2282 is compatible with PU dispersions like Bayhydrol® XP 2593/1, and also with many polyacrylic dispersions and UV-curing products in general. The pH of such blends should be adjusted over 6.7 (use tri-ethyl-amine).

Bayhydrol® UV 2282 is easily matted down using standard matting agents. Matting agents and additives can be dispersed (dissolver) directly in the binder.

## Properties / Applications

Bayhydrol® UV 2282 is used in the formulation of High Quality Waterborne UV-curing Wood coatings, that will normally pass the DIN 68 861-1B norm. After the water has evaporated, the coating is physically dry and handable. UV-Curing (10 m/min per 80 W/cm lamp) will result in a very high final quality. The photo initiator demand is low, 1 - 2 % will be enough (by wt., calculated on solid binder).

Coatings based on Bayhydrol® UV 2282 will show good adherence to many substrates, including plastics. To further boost adhesion, and to cope with "shadow curing" Bayhydrol® UV 2282 can be dual cured using our Bayhydrol® hardeners, e.g. Bayhydrol® ultra 305.

## Storage

- Storage in original sealed Covestro container.
- Recommended storage temperature: 5 - 30 °C.
- Protect from intense radiation (light, UV), frost, heat and foreign material.

General information: The product is sensitive to frost. Freezing will damage the product irreversibly. Prolonged storage at higher temperatures may result in an increase of average particle size, risk of sedimentation, risk of pH-drift and ultimately coagulation. Even though the product is stabilized by a biocide, contamination with certain bacteria, fungi or algae may render the product unusable.



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## 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.

## 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**.

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 devices<sup>1</sup>). [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.

Edition: January, 2018

Editor: Coatings, Adhesives & Specialties  
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Edition 2022-01-05

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Places edition dated 2013-03-18