Desmophen® 800

Characterization	Highly branched polyester bearing hydroxyl groups. In the formulation of two-component PU coatings.
Form supplied	High viscosity resin

Specification

Property	Value	Unit of measurement	Method
Hazen color value	≤ 250		DIN EN 1557
Acid value	≤ 4	mg KOH/g	DIN EN ISO 2114
Viscosity at 23 °C, 70 % in 1-methoxypropylacetate-2	850 ± 150	mPa·s	DIN EN ISO 3219/A.3
Hydroxyl content	8.6 ± 0.3	%	DIN EN ISO 4629-2
Water content	≤ 0.1	%	DIN 51 777/1

Other data*

Property	Value	Unit of measurement	Method
Equivalent weight	approx. 200		
Density at 20 °C	approx. 1.18	g/ml	DIN EN ISO 2811-2
Flash point	approx. 150	°C	DIN EN ISO 2719
Pour point	approx. + 11	°C	DIN ISO 3016

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

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Solubility / thinnability	Generally speaking, Desmophen® 800 has good compatibility with esters, ether esters, ketones and aromatics. However, the solutions formed must be tested for their storage stability. Prolonged storage of a solution with low binder content may result in turbidity and sedimentation. Only PU grade solvents should be used (< 0.05 % water, free from other reactive impurities).
Compatibility	Generally speaking, Desmophen® 800 is compatible with most polyester and polyether Desmophen® grades and with Desmodur® HL, IL, L and N 75. The compatibility should nevertheless be tested.
Properties / Applications	With Desmodur® L as the reaction partner, Desmophen® 800 yields hard films with good chemical resistance. These coatings are also characterized by high impact resistance, toughness and abrasion resistance. As a combination polyol with Desmophen® 1100, Desmophen® 800 can be used to formulate floor coatings with high abrasion resistance.
Storage	- Storage in original sealed Covestro container. - Recommended storage temperature: max. 30 °C. - Protect from moisture, heat and foreign material. General information: The product is slightly hygroscopic.
Storage time	Covestro represents that, for a period of twelve 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 twelve 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 twelve 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 twelve 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**.

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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