

| Characterization | Aliphatic anionic polyester polyurethane dispersion. As a combination binder in the formulation of highly flexible, water-thinnable, air- and force-drying primers and one-coat finishes for use on plastics. |
|------------------|---|
| Form supplied | approx. 40 % in water |

Specification

| Property | Value | Unit of measurement | Method |
|--|----------|---------------------|------------------------------------|
| Viscosity 23 °C, D=40s-1 | < 150 | mPa.s | M014-ISO 3219/A.3 |
| Non-volatile content (1 g/1 h 125 °C) | 39 - 41 | % | DIN EN ISO 3251 |
| рН | 6 - 8 | | DIN ISO 976 |
| Mean particle size | max. 210 | nm | photon correlation spectroscopy |

| Other data* | | | | |
|--|---------------|---------------------|-------------------|--|
| Property | Value | Unit of measurement | Method | |
| Acid value | approx. 0.5 | mg KOH/g | DIN EN ISO 2114 | |
| Minimum film forming temperature (MFT) | < 0 | °C | DIN ISO 2115 | |
| Density at 20 °C | approx. 1.1 | g/ml | DIN EN ISO 2811-2 | |
| Appearance | milky, cloudy | | | |

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









| Solubility / thinnability | With water. | |
|---------------------------|---|--|
| Compatibility | Bayhydrol [®] UH 240 is compatible with many acrylic dispersions, polyurethane dispersions and water-thinnable polyesters. Given the many different products available, the compatibility should always be tested. | |
| Properties / Applications | Bayhydrol [®] UH 240 can be used in combination with hydrofunctional resins, preferably Bayhydrol [®] U XP 2698, Bayhydrol [®] U 2757 and in the formulation of highly flexible two-component polyurethane top coats (e.g. in soft-feel coating systems). After crosslinking with, e.g. Bayhydur [®] 3100 force-drying (e.g. 30 - 45 min at 80 °C) yields films with good surface handle and good resistance to abrasion and water. | |

Formulation/application

Suitable grinding equipment includes sand or bead mills. During grinding the temperature of the mill base should not exceed 40 °C. After formulation the pH of flexible primers based on Bayhydrol[®] UH 240 is approx. 8. The flexible primers can be applied by conventional spraying methods.

Cleaning

All equipment should be cleaned immediately after use or left to soak in water. Warm water, alkaline cleaning agents or alkaline isopropyl alcohol are suitable for cleaning.









Storage

Storage time

- Storage in original sealed Covestro containers.
- Recommended storage temperature: 5 40 °C.
- Protect from frost, heat and foreign material.

General information: An increase in viscosity may occur during storage. If the containers are not sealed properly, the evaporation of water will result in the formation of a film which cannot be redispersed. The product is sensitive to frost. Freezing will 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. Contamination with certain bacteria, fungi or algae may render the product unusable.

Covestro represents that, for a period of nine 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 nine 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 nine 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 nine 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.

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