Bayhydrol® UH 2593/1

Type	Aliphatic, fatty acid-modified, anionic polyurethane dispersion
Form supplied	Approx 35 % in water, neutralized with triethylamine, approx. 35 : 64 : 1
Uses	Binder for the formulation of water-reducible coatings and sealers for wood and wood materials.

Specification

Property	Value	Unit of measurement	Method
Non-volatile content (1g/1h/125 °C)	34 - 36	%	DIN EN ISO 3251
Viscosity at 23 °C D = ca. 99.3)	< 250	mPa·s	DIN EN ISO 3219/A.3
pH (1 : 2.5 in demineralised water)	7 - 9		DIN 53 785

Other data*

Property	Value	Unit of measurement	Method
Mean particle size	approx. 60	nm	photon correlation spectroscopy
Density	approx. 1.03	g/cm^3	DIN 53 217

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

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Solubility / thinnability	The product is soluble in water.
Properties / Applications	The product was developed specifically for the formulation of one- and two-component wood coating systems. It is characterized by very good wet film transparency, high hardness and good black heel mark resistance. Post-curing of such coatings with Bayhydur® VP LS 2336 or Bayhydur® 3100, for example, brings additional significant advantages and results in waterborne two-component coatings with even higher mechanical and chemical resistance. The mixing ratio of mill base to hardener solution is generally 10 : 1. The product is also suitable for use in a wide range of applications thanks to the combination of good application properties and good compatibility with cost-effective PAC dispersions. On account of the many potential co-reactants, compatibility testing should always be carried out.
Storage	**-** Storage in original sealed Bayer MaterialScience containers. **-** Recommended storage temperature: 5 - 30 °C. **-** Protect from frost, heat and foreign material.
Storage time	Bayer MaterialScience 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, Bayer MaterialScience recommends to test such a product if it still meets the specifications or the set values. Bayer MaterialScience does not make any representation regarding the product after the lapse of the six months period and Bayer MaterialScience 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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Safety

Hazards identification

Not classified as a hazardous product as per Council Directive 67/548/EEC or 1999/45/EC.

The safety data sheet should be observed. This contains information on labeling, transport and storage as well as on handling, product safety and ecology.

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