



BAYHYDROL® A 2695

Polyacrylic Dispersion

Product Information

Description

Bayhydrol A 2695 is an aqueous, hydroxyfunctional polyacrylic dispersion. Form supplied is approximately 41% in water/1-butoxy-2-propanol, neutralized with triethanol amine/dimethyl amino ethanol (3:1), ratio approximately 48.8:7.6:2.6.

Application

Bayhydrol A 2695 is used in combination with aliphatic polyisocyanates for air- and force-drying coating systems. This product exhibits excellent chemical resistance. The resistance can be improved by increasing the NCO/OH ratio.

The cured paint films are hard, tough but flexible, glossy and high-bodied with good weather stability, and lightfastness. Application of a clearcoat based on Bayhydrol A 2695 directly on wood may lead to discoloration.

As with any product, use of Bayhydrol A 2695 in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

Product Specifications

Property	Value
Non-volatile content, % (1g/1h/125°C)	40 - 43
pH (1:4 in demineralized water)	7.2 - 8.2
Viscosity @ 23°C, mPa.s D= approx. 40s ⁻¹	2,000 - 3,500

Typical Properties*

Property	Value
Density @ 20°C, g/ml	Approx. 1.06
Acid value, mg KOH/g	Approx. 9.4
Flash point, °C (no flash point up to initial boiling point)	> 95
Hydroxyl content, % (calculated on solid resin)	Approx. 5.0
Equivalent weight, g/mol	Approx. 830

Solubility

Bayhydrol A 2695 can be thinned with water in any ratio.

Compatibility

Suitable co-reactants for the formulation of aqueous two-component polyurethane systems include Desmodur® N 3900, N 3600, Bayhydur® 304, XP 2478/1, XP 2655, and XP 2547.

* These items are provided as general information only. They are approximate values and are not part of the product specifications.

Storage

Bayhydrol A 2695 dispersion should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Recommended storage temperatures are 0° to 25°C. Bayhydrol A 2695 has a shelf life of six months after receipt of material by customer, provided the material is stored in sealed original containers.

Health And Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling Bayhydrol A 2695. Before working with these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels. Consult your local Bayer MaterialScience representative or contact Bayer's Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

Note: The information contained in this bulletin is current as of June 2012, please contact Bayer MaterialScience to determine whether this publication has been revised.

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