

Bermocoll FLOW

Ethyl hydroxyethyl cellulose

Bermocoll® FLOW is an associative non-ionic, water-soluble cellulose ether that improves the rheological properties of water based paints. The specifications may be subject to change.

Specifications

Appearance	Yellowish powder
Particle size	≤ 500 µm (98 %)
Salt content	≤ 4.5 %
Water content	≤ 4 %

Characteristics

pH, 1% solution	4-7
Solution appearance	Opaque
Surface activity	Weak
Viscosity at 20 °C (Brookfield LV), 2% solution	500 - 1500 mPa.s

Notes:

Bermocoll® FLOW is a hydrophobically modified ethyl hydroxyethyl cellulose.

Applications

Bermocoll® FLOW is a new type of hydrophobically modified cellulose ether for use as a rheology modifier in latex paints. Depending on the formulation, Bermocoll® FLOW is intended to provide improved flow and leveling and eliminate complex combinations of thickeners to achieve the optimal paint rheology profiles. In order to facilitate dispersion in water, Bermocoll® FLOW has been treated to give a pH-dependent dissolving. It should be added to neutral or slightly acid water. To speed up the dissolving process, pH should be increased to above 8 by using alkaline ingredients such as ammonia or alkaline pigment dispersants. If adjustment of the final paint viscosity is necessary, a highly concentrated slurry either in water or in an organic solvent should be used. It is not recommended to add Bermocoll® FLOW as a dry powder after pigment grinding, due to the risk of lump formation under the alkaline conditions at that stage.

Storage

In unopened bags, Bermocoll® FLOW can be stored for several years. In opened bags, the moisture content of Bermocoll® FLOW will be influenced by the air humidity.

Packaging and transport

Bermocoll® FLOW is packed in polyethylene plastic bags. Net weight 20 kg. We recommend emptying the bags from the bottom. The empty bags can be re-cycled or burned.

Safety and handling

Like many industrially processed powdery materials, cellulose ether dusts are combustible and can cause dust explosions. Dust formation must be avoided or kept to a minimum. Care should be taken to prevent ignition from heat, spark, open flames or hot surfaces. At the temperatures above 250°C (480°F), charring of Bermocoll® FLOW will occur. At high temperatures and in contact with an open flame, Bermocoll® FLOW will burn slowly with the characteristics of cellulose.

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Nouryon, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nouryon does not accept any liability whatsoever arising out of the use of or reliance on this information, or out of the use or the performance of the product. Nothing contained herein shall be construed as granting or extending any license under any patent. Customer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued information on the subject matter covered. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

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