

Bermocoll EHM 500

Ethyl hydroxyethyl cellulose

Bermocoll® EHM 500 is a high efficiency associative non-ionic, water-soluble cellulose ether that improves the rheological properties of water based paints.

Specifications

Appearance	Whitish powder
Particle size	98 % ≤ 500 μm
Salt content	≤ 4.5 %
Water content	≤ 4 %

Characteristics

pH, 1% solution	5-7
Solution appearance	Opaque
Surface activity	Weak
Viscosity at 20 °C (Brookfield LV), 1% solution	7000-10000 mPa.s

Notes:

Bermocoll® EHM 500 is a hydrophobically modified ethyl hydroxyethyl cellulose.

Applications

Bermocoll® EHM 500 is used as a thickener in all types of latex paints, intended for interior as well as for exterior use. Bermocoll® EHM 500 improves high shear viscosity, roller spatter, flow and levelling. Bermocoll® EHM 500 has a high resistance to enzymatic degradation. Normal dosage is 0.1 - 0.4 % calculated on the total paint weight. In order to facilitate dispersion in water, Bermocoll® EHM 500 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, highly concentrated slurry either in water or in an organic solvent should be used. It is not recommended to add the product as a dry powder after pigment grinding. Under the alkaline pH conditions at that stage Bermocoll® EHM 500 will dissolve too rapidly with the risk of lump formation.

Storage

In unopened bags, Bermocoll® EHM 500 can be stored for several years. In opened bags, the moisture content of Bermocoll® EHM 500 will be influenced by the air humidity. At temperatures above 250 °C (480 °F), charring of Bermocoll® EHM 500 will occur.

Packaging and transport

Like many industrial 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 surface. Bermocoll® EHM 500 is packed in polyethylene bags. Net weight 20 kg. We recommend emptying the bags from the bottom. The empty bags can be recycled or burned.

Safety and handling

At high temperatures and in contact with an open flame, Bermocoll® EHM 500 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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