

# 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.

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The logo for Nouryon, featuring a stylized blue 'N' followed by the word 'ouryon' in a blue sans-serif font.