

# Bermocoll ML 31

## Methyl ethyl hydroxyethyl cellulose

Bermocoll® ML 31 is a modified non-ionic, water soluble cellulose ether, intended as a water retaining and consistency improving additive to cement based mortars. Bermocoll® ML 31 contains methyl, ethyl and hydroxyethyl substituents giving a unique balance between workability and strength.

### Specifications

Appearance	Whitish powder
Particle size	98 % ≤ 600 µm
Water content	≤ 5 %

### Characteristics

pH, 1% solution	7
Surface activity	Weak
Viscosity at 20 °C (Brookfield LV), 1% solution	2900-3900 mPa.s

#### Notes:

Bermocoll® ML 31 is a modified medium viscosity grade of methyl ethyl hydroxyethyl cellulose.

## Applications

Bermocoll® ML 31 is used in tile adhesives and renders to improve the workability, consistency, water retention and adhesion.

## Storage

In unopened bags, Bermocoll® ML 31 can be stored for several years. In opened bags, the moisture content of Bermocoll® ML 31 will be influenced by the air humidity.

## Packaging and transport

Like many industrial processed powdery materials, cellulose ether dust 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® ML 31 is packed in a polyethylene bag. Net weight 15 kg. We recommend emptying the bags from the bottom. The empty bags can be recycled or burned. In unopened bags, Bermocoll® ML 31 can be stored for several years. In opened bags, the moisture content of Bermocoll® ML 31 will be influenced by the air humidity. At the temperatures above 250°C (480°F), charring of Bermocoll® ML 31 will occur. At high temperatures and in contact with an open flame, Bermocoll® ML 31 will burn slowly with the characteristics of cellulose.

## Safety and handling

Bermocoll® ML 31 is intended for dry mixing with other powder materials and should not be used for direct dissolving in water. At the temperatures above 250 °C (480 °F), charring of Bermocoll® ML 31 will occur. At high temperatures and in contact with an open flame, Bermocoll® ML 31 will burn slowly with the characteristics of cellulose.

## Certifications

Nouryon Chemicals AG has been certified according to ISO 9001, ISO 14001 and OHSAS 18001.

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