

# 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 % $\leq$ 600 $\mu$ m
Water content	$\leq$ 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.

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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