



Product Information

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Bermocoll E 411 FQ

BERMOCOLL E 411 FQ is a non-ionic, water soluble cellulose ether. It improves the consistency, the stability, and the water retention of water based products.

Specifications

BERMOCOLL E 411 FQ is a medium viscosity grade of ethyl hydroxyethyl cellulose.

Physical data

Appearance	whitish powder
Particle size	98 % < 425 µm
Water content	max 4 %
Salt content	max 5 %

Characteristics of aqueous solutions

pH (1 % solution)	neutral
Surface activity	weak
Viscosity at 20°C (Brookfield LV) 1 % Solution	850 - 1,200 mPa·s

Applications

BERMOCOLL E 411 FQ is used in **latex paints** for thickening and stabilizing effects. Normal dosage in paints is 0.2 - 0.5 % calculated on the total paint weight.

BERMOCOLL E 411 FQ is used in **cement-based tile fix and joint mortars** for improvement of workability, consistency, water retention and adhesion. Normal dosage is 0.2 - 0.7 % calculated on the dry mortar weight.

BERMOCOLL E 411 FQ is easily dispersed in cold water of pH7 or less. BERMOCOLL E 411 FQ can form lumps when added to an alkaline liquid. To avoid this, it should be added as a ready stock solution, as a slurry in slight acid water or in an organic solvent, or as a dry mix with other powder materials.

The dissolving time after dispersion is influenced by the water pH. Alkaline additives can be used to speed up the dissolving process.

Packaging and Storage

BERMOCOLL E 411 FQ is packed in multiply paper bags with an inner polyethylene bag. Net weight 20 kg (approx 44 lbs). We recommend emptying the bags from the bottom. The empty bags can be recycled or burned. In unopened bags, BERMOCOLL E 411 FQ can be stored for several years. In opened bags, the moisture content of BERMOCOLL E 411 FQ will be influenced by the air humidity.

At the temperatures above 250°C (480°F), charring of BERMOCOLL E 411 FQ will occur. At high temperatures and in contact with an open flame, BERMOCOLL E 411 FQ will burn slowly with the characteristics of cellulose.

CCD 2903



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