



Akzo Nobel
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Cellulosic Specialties

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Product Information

AkzoNobel
Tomorrow's Answers Today

Bermocoll E 481 FQ

BERMOCOLL E 481 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 481 FQ is a high 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 | 4,250 - 6,000 mPa·s |

Applications

BERMOCOLL E 481 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 481 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 481 FQ is easily dispersed in cold water of pH7 or less. BERMOCOLL E 481 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 481 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 481 FQ can be stored for several years. In opened bags, the moisture content of BERMOCOLL E 481 FQ will be influenced by the air humidity.

At the temperatures above 250°C (480°F), charring of BERMOCOLL E 481 FQ will occur. At high temperatures and in contact with an open flame, BERMOCOLL E 481 FQ will burn slowly with the characteristics of cellulose.

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