

## Bermocell<sup>®</sup> 30000

### Cellulose Ether for Silicate Paints

Nouryon, a new company with a 400-year head start, a global specialty chemicals leader. Over the course of our long history we have built up a wealth of expertise in our range of cellulose based products.

#### Bermocell<sup>®</sup> 30000

Bermocell 30000 is a unique sodium carboxymethyl cellulose (CMC) that can be used as a thickener and stabilizer in a broad range of applications. Bermocell works very well as a thickener in silicate paints.

#### Unique selling points

- Perfect dissolution properties for high pH
- Provides increased water retention
- Efficient thickening and good stability

#### Example of silicate paints

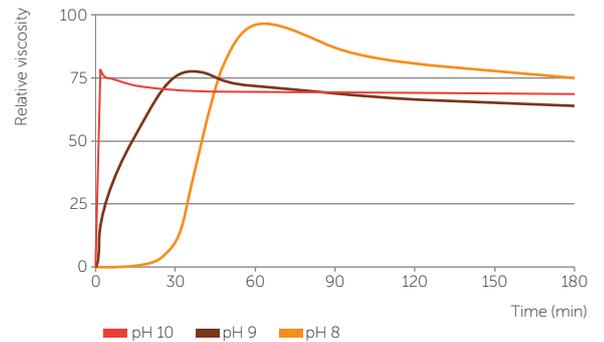
	Bermocell 30000	HEC
<b>Viscosity</b> (dosage 0.25%)		
Stormer	85	85
<b>Storage</b> (4 weeks 50°C)		
Stormer (Δ)	19%	32%
Syneresis (mm)	0	4
<b>Application</b>		
Sagging	12	10
Leveling	8	8
<b>Color acceptance</b> (dE00)		
Iron oxide black 3%	0.5	0.7

The paint with Bermocell provides efficient thickening and excellent storage stability with no syneresis. Application properties like sagging and color acceptance are superior to a HEC thickener of the same viscosity grade in this example. Bermocell 30000 improves the rheological properties and at the same time it is a stabilizer and water retention agent.

#### Perfect for silicate paint

Bermocell 30000 is easily dispersed in cold water at pH 8 or less. After dispersion the pH should be increased to a level of 10 or higher to achieve complete dissolution. The conditions in silicate paint with very high pH are perfect for the dissolving behavior of Bermocell.

#### Effect of pH on dissolving time



## Bermocell® 30000

Silicate paint formulation	
Water	291.5
Sapetin D27	2
Betolin V 30	1
Cellulose thickener	2.5
Betolin Quart 44	5
Foamaster 50	3
Kronos 2300	60
Omyacoat 850 OG	100
Socal P2	7
Omya BLH	240
Betolin A11	8
Ecrylic KDA 790	70
Betolin P50	200
Tego Phobe 1650	10
Total	1000

## Bermocell® 30000 typical properties

Physical data	
Appearance	white powder
Particle size	99% < 500 µm
Water content	max 8%
Characteristics	Range
pH (1% solution)	5 - 7
Surface activity	neutral
Brookfield viscosity (LV type), 25°C 2% solution @pH 10	min. 10,000 mPa.s
Dissolution time, 25°C	max. 20 min, pH 10
Bulk density	600 - 800 g/l
Package	25 kg bags

## BERMOCELL

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