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## Technical Data Sheet

### **Exilva FM 02-V Microfibrillated Cellulose**

Exilva FM 02-V is a bio-based pre-activated multifunctional additive. Exilva FM 02-V increases your formulation efficiency, reduces your CO<sub>2</sub> footprint and creates exciting opportunities for innovation.

#### **Typical characteristics**

Solid content (%)	8 - 12
Viscosity in H <sub>2</sub> O (2%, mPas)	≥15 000
Conductivity (2%, µS/cm)	≤500
pH (1.4% in H <sub>2</sub> O)	3-5
Water holding capacity (gH <sub>2</sub> O/g)	≥70
Color	White to off-white
CAS no. (Cellulose)	9004-34-6
Preservatives	Yes

#### **Key properties**

High aspect ratio and large surface area with many available OH groups.  
Pseudoplastic and extremely shear thinning with high viscosity at rest.  
Forms non-soluble fiber network with polymer-like properties and high yield stress.  
Stable at high temperatures (up to 200°C) and in pH from 1-13.  
High crystallinity. Zero VOC. Non-toxic.

#### **Examples of product benefits from using Exilva FM 02-V**

Increased formulation stability, improved flow and sag/drip control, enhanced spray ability of thick formulations, improved workability, structuring, enhanced properties of films/cured formulations; oxygen barrier and reinforcing effect, good water resistance.



## Efficiency in use

Typical dosage level of Exilva FM 02-V is 0.05%-0.75% (dry matter) of the total product system formulation. The optimal dosage will depend on the formulation. Exilva FM 02-V is a multifunctional performance additive offering opportunities to replace or reduce several components in a complex formulation.

## Incorporation

1. Introduce Exilva FM 02-V in the water/polar phase, preferably in an early process step (e.g. grinding, dispersing, emulsifying).
2. Disperse Exilva FM 02-V thoroughly (high shear) in this water/polar phase.

## Packaging example

Shipped in 10kg and 20kg bags, 300 kg big bags.

## Storage

Recommended storage temperature: ambient or lower. Damaged when frozen. Avoid contamination, use gloves and clean equipment.

## Shelf life

Provided stored as advised, the product has a shelf life of minimum one year from date of production.