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Technical Data Sheet

Exilva[®] P 01-V Microfibrillated Cellulose

Exilva P 01-V is a bio-based pre-activated multifunctional additive. Exilva P 01-V increases your formulation efficiency, reduces your CO_2 footprint and creates exciting opportunities for innovation.

Typical characteristics

Solid content (%)	8 - 12
Viscosity in H ₂ O (2%, mPas)	>14 000
Conductivity (2%, µS/cm)	<500
pH (2% in H ₂ 0)	5-7
Water holding capacity (gH_20/g)	≥50
Color	White to off-white
CAS no. (Cellulose)	9004-34-6

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 P 01-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 P 01-V is 0.05%-0.75% (dry matter) of the total product system formulation. The optimal dosage will depend on the formulation. Exilva P 01-V is a multifunctional performance additive offering opportunities to replace or reduce several components in a complex formulation.

Incorporation

- 1. Introduce Exilva P 01-V in the water/polar phase, preferably in an early process step (e.g. grinding, dispersing, emulsifying).
- 2. Disperse Exilva P 01-V thoroughly (high shear) in this water/polar phase.

Packaging examples

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

Storage

Recommended storage temperature: ambient or lower. Damaged when frozen. Not sterilized nor preserved. 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.