

## Technical Data Sheet

### **Exilva®** **P 01-L** **Microfibrillated Cellulose**

Exilva P 01-L is a bio-based pre-activated multifunctional additive. Exilva P 01-L increases your formulation efficiency, reduces your CO<sub>2</sub> footprint and creates exciting opportunities for innovation.

#### **Typical characteristics**

Solid content (%)	1 - 3
Viscosity in H <sub>2</sub> O (2%, mPas)	>14 000
Conductivity (2%, µS/cm)	<500
pH (2% in H <sub>2</sub> O)	5-7
Water holding capacity (gH <sub>2</sub> O/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-L**

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

## **Incorporation**

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

## **Packaging**

Shipped in IBC's, ISO containers and bulk.

## **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.