

WHAT IS MICROFIBRILLATED CELLULOSE?

Microfibrillated cellulose (MFC) is an organic, bio-sourced, and bio-degradable polymer produced by carefully separating the fibrils in cellulose pulp. The fibrillation process creates a fine, three-dimensional network of microfibrils with a very high surface area.

Today raw materials for MFC range from hardwood to softwood based cellulose and potentially in the future from available side streams in food production.

Weidmann's Celova® products are available as a gel and a powder.

AIM & APPLICATIONS

Microfibrillated cellulose is a material with a wide range of potential applications. Weidmann is currently focusing on introducing MFC into the coatings, adhesive, and home care markets to replace synthetic polymers and address the microplastic and sustainability challenges. For example, MFC is used in these applications as a rheological modifier, sealer, color enhancer, binder, and reinforcer.

Other applications include modifications of textiles and non-wovens, cosmetics, battery membranes, and art restoration. In some of these applications, the very high surface area of MFC is used to bind various ingredients and/or create very strong and dense materials.

Weidmann aims to replace petroleum-based materials with MFC, as well as realize important multifunctionality and sustainability benefits.

SUSTAINABILITY

Sustainability is a core element of Weidmann's culture, with more than 140 years of experience providing cellulose-based materials to markets world-wide.

Weidmann Fiber Technology uses a patented, purely mechanical process to create its unique microfibrillated cellulose, ensuring no unwanted or harmful chemicals end up in the product or the environment. This energy efficient production of MFC has created a new state of the art process.



The widely available raw materials are sourced exclusively from certified suppliers and short supply chains make it possible to reduce grey energy.

ABOUT US

Weidmann Fiber Technology was created as a new business area founded upon Weidmann's extensive experience and knowledge of working with cellulose.

Thanks to the innovative team of technical experts, an energy-efficient and customizable production process allow us to tailor our materials and production approach to our customer's requirements, offering deep know-how on microfibrillated cellulose, its properties, and its uses. We can deliver diversified types of MFC for technically demanding applications.

The Swiss state-of-the-art production asset and highly experienced production team currently have the capacity to produce more than 1000MT, with flexibility and agility to scale to demand.