59740 Armicel 500, hydrophilic reinforcing fiber

The swellable cellulose fiber of 400 - 800 µm length thickens gel-like in water. Stable gel-like pastes are produced by simple mixing with a stirrer or compulsory mixer.

We recommend Armicel 500 e.g. for incorporation in distemper, in plaster, in mortar to reduce flowing and to prevent cracking.

In addition, Armicel 500 can also be used to make desalination compresses. We can recommend the following recipe: mix 4 parts of Armicel 500 with 100 parts of Arbocel 200 in 600 parts of demineralized water. This paste can be easily applied to the wall.

The strong swelling effect of Armicel 500 can cause difficulties when working it into acrylic paint. For acrylic paints, the Armicel must be carefully preswollen in water and the swollen paste slowly incorporated into the acrylic paint while stirring well.

Armicel 500 is a chemically post-treated cellulose fiber. The fiber has a very high swelling capacity, but remains as a fiber. Armicel 500 has some binder character without having free adhesive molecules. Armicel 500 can be thought of as an intermediate state between a normal cellulose fiber, such as arbocele, and a cellulose glue molecule. The swelling ability of the fiber and the insolubility combine to form a stable gel.

Physical and Chemical Properties:

Whiteness (absolute value at 460 nm):	min. 70 %
pH-Value:	4.5 – 7.5
Cellulose content:	approx. 99.5 %
Average particle size / Particle range, disperged:	10 – 500 µm
Bulk weigh (DIN EN ISO 60)t:	330 – 500 g/l
Viscosity (Broodfield)*	min. 2000 mPa.s

*2 % suspension in dest. water: Brookfield viscosimeter at 20°C and 20 U/min (activation: 5 cm dissolver disc, 2000 U/min, 6 min)

Sieve Analysis (DIN EN ISO/air jet sieve):

Sieve residue:

> 150 µm	> 71 µm	> 32 µm
max. 15 %	max. 35 %	25 – 80 %

General Remarks

As in all natural products, negligible deviations can occur from the values stated above.

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