

Vinapor® WA 3918 F

Ultra-fast powder wetting agent for dry mortars

What is Vinapor® WA 3918 F?

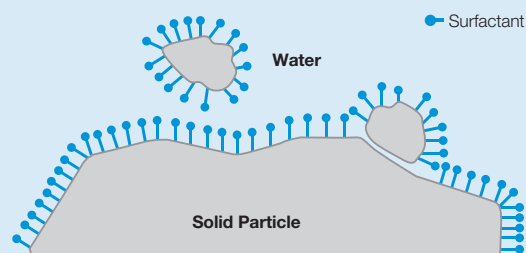
Vinapor® WA 3918 F is an ultra-fast powder wetting and dispersing agent based on a non-ionic oleo-alkyleneoxide-block copolymer.

How does Vinapor® WA 3918 F work?

Vinapor® WA 3918 F significantly improves wetting of solid particles by reducing surface tension of water and lowering interfacial tension between water and solid particles which creates a dispersing and viscosity reducing effect. It is compatible with all types of cement, lime and gypsum based systems.

Effects

- ▶ Very fast and easy mixing
- ▶ Avoiding or reduction of lump formation
- ▶ Better and faster dispersing and distribution especially of fine particles
- ▶ More homogenous color appearance of pigmented systems



Benefits

- ▶ Excellent wetting properties, especially in very fine particles like color pigments or lime stone powder
- ▶ Improved processing properties through enabling more thorough homogenization with less energy
- ▶ High robustness to different mixing procedures and equipment
- ▶ Non-retarding to mineral binders
- ▶ Moderate introduction of air – can be defoamed with Vinapor® DF types if required
- ▶ Very dosage efficient
- ▶ High alkali and water hardness stability

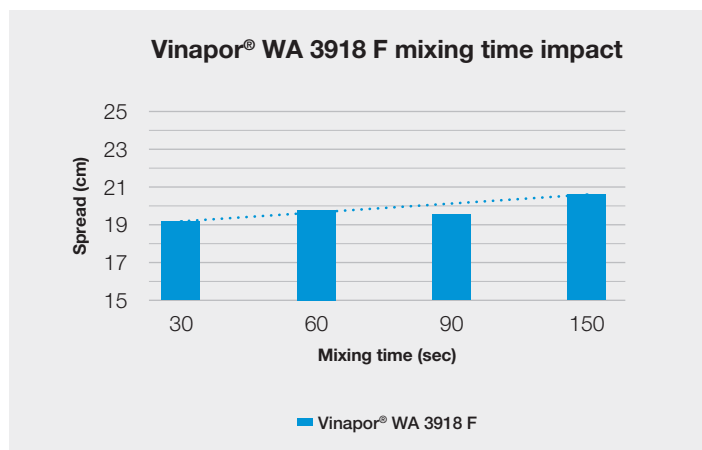
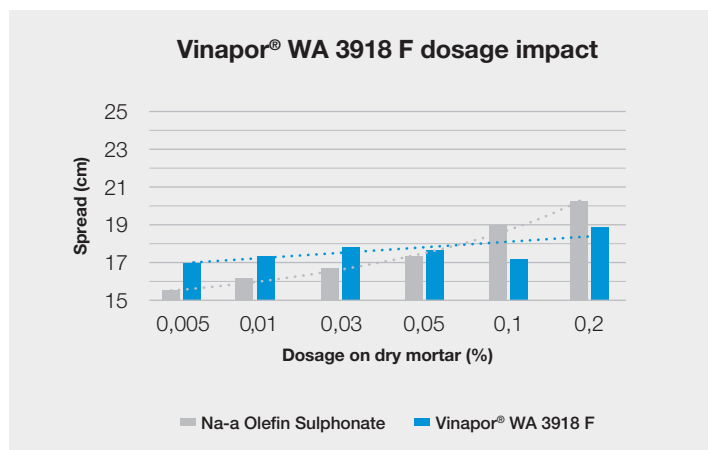
Fields of Application for Vinapor® WA 3918 F

Vinapor® WA 3918 F is recommended for:

- ▶ Pigmented Systems (e.g. powder paints, tile grouts, decorative plasters, final layers)
- ▶ Skim coats
- ▶ Plasters and renders
- ▶ Masonry mortars
- ▶ Repair mortar

Dosage recommendation for Vinapor® WA 3918 F is between 0.005 and 0.10%/dry mortar.

Exemplary test results: Basic Cementitious System



Test system

| | |
|---------------------|------------------|
| OPC: | 20% |
| Silica Sand: | 80% |
| MHEC 15.000: | 0,10% |
| Water: | 20% |
| Vinapor® WA 3918 F: | variable dosage |
| Rilem Mixing: | Level 1 – 90 sec |

Test system

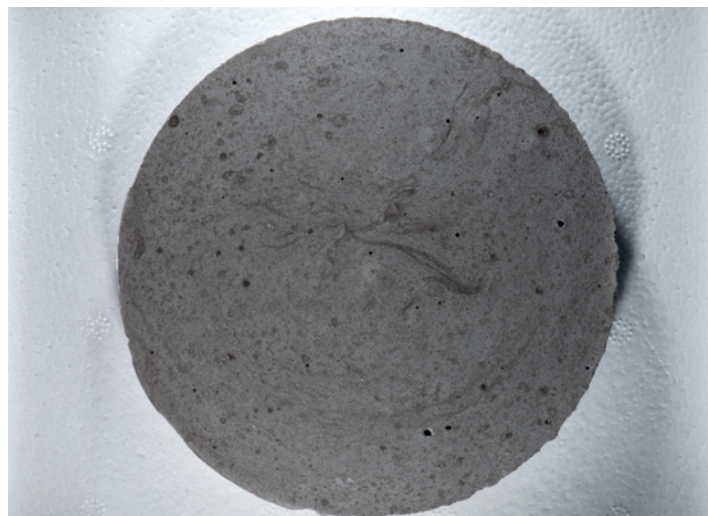
| | |
|---------------------|---------------|
| OPC: | 20% |
| Silica Sand: | 80% |
| MHEC: | no |
| Water: | 20% |
| Vinapor® WA 3918 F: | 0,03% |
| Rilem Mixing: | variable time |

► **Very stable and constant results independent of dosage and mixing time!**

Exemplary test results: Pigmented Basic Cementitious System

Test formulation with 0,5 % black pigment

additionally: Vinapor® WA 3918 F (0,03%)



► **Inhomogeneous particle distribution**



► **Smooth surface and particle distribution**

Further information (test formulations and further test results) is available on demand. Please feel free to contact our local sales representatives.

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