

®Mowilith 727 M

Technical Data Sheet

Version - Issue 05/12/2015

Characteristics

Mowilith 727 M is plasticizer free aqueous acrylic ester copolymer dispersion.

Stabilization

Surfactants

Recommended Application Areas

Exterior wall paints

Interior wall paints

2K water proofing

Wood coatings – varnish and lacquer

Gloss paints

Specification

These technical data are determined for each lot before its release by our quality control laboratory.

	Unit	Value	
Solids content (DIN 53 189 / DIN ISO 1625)	%	49.0	- 51.0
Viscosity (DIN EN ISO 2555; spindle no. 2; 20 rpm; 27 °C) Brookfield viscometer RVT	mPa·s	400	- 1200
pH value (DIN 53 785 / ISO 1148)		7.5	- 8.5

Additional Data

These data are used solely to describe the product. They are not subject to constant monitoring or part of the specification.

	Unit	Value
Dispersion:		
Particle size	µm	ca. 0.15
Minimum film forming temperature (MFFT) (DIN 53 787 / ISO 2115)	°C	ca. 28
Density (ISO 8962)	g/cm ³	ca. 1.01
Film:		
Appearance		transparent
Glass transition temperature (Tg) (DIN 53 765, DSC, heating rate 10 K/min)	°C	30



Applications

Mowilith 727 M is suitable as a binder for glossy emulsion paints with an excellent water, alkali and exterior durability. Due to its relatively high Tg, exterior paints based on Mowilith 727 M exhibits also excellent dirt pick up performance.

Mowilith 727 M has excellent cement compatibility.

Processing

The usual titanium dioxide and coloured pigments as well as fillers and extenders may be used for the formulation of paints. To ensure adequate storage stability long term storage trials are recommended, especially when fillers and coloured pigments with a large specific surface area are used. In addition to the wide spread used polyphosphates the salts of low molecular weight poly acrylic acids [e. g. ® Mowiplus PDA 45S] working as a dispersing agent should also be used to achieve further stability.

Due to the small particle size of Mowilith 727 M the required quantity of dispersing agent [®Mowiplus PDA 45S] should be approx. 1.7%-2.4% relative to the amount of fillers, extenders, TiO₂ and pigments for optimum performance of the paints. Furthermore the amount of coalescent has to be adjusted to the low MFFT of Mowilith 727 M. We recommend using approx. 5% Texanol based on wet binder used.

Defoamers should be added in order to prevent excessive foaming in the paints. Trials must be carried out to determine the most suitable grades and the correct concentration.

Preservation and Storage

To prevent attack by microorganisms the preservatives normally used for polymer dispersions should be added despite our preliminary preservation measures. Checks should be carried out to determine their compatibility and efficiency.

Mowilith 727 M should not be stored for longer than 6 months before processing. As far as possible storage should be at uniform temperature in the range of 5 - 25 °C. The product should be kept away from frost and direct exposure to sunlight. Furthermore it must be ensured that already opened drums or containers are always tightly closed.

The technical data ascertained by our quality control laboratory at the time of product release may vary according to the storage time and storage conditions and may deviate from the stated limits.

Industrial Safety and Environmental Protection

A safety data sheet is available on request.

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.

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