

# Makrovił SE 3603

- ◆ Emulsion polymer based on styrene and acrylates

## **Fields of Application: Architectural Coatings, Wood Finishing and Coatings**

- ◆ Binder for water-based lacquers, water-based interior coatings, high and matt gloss, wood lacquers, wood primers, concrete coatings, floor finishes and metal coatings.

## **Characteristics:**

- ◆ high film hardness
- ◆ fast drying
- ◆ high gloss
- ◆ excellent anti blocking properties
- ◆ a good water resistance

<b>Appearance</b>	:	whitish emulsion
<b>Solid Contents</b> * (DIN EN ISO 3251)	:	43 - 45 %
<b>Viscosity</b> * at 25°C (DIN 53019-1) (Anton Paar RheolabQC; MS: CC27; D=28.9 s <sup>-1</sup> )	:	260 - 330 mPa·s
<b>Flow Time</b> at 20°C (DIN 4 cup)	:	70 – 90 sec
<b>pH Value</b> * (DIN ISO 976)	:	7.8 – 8.3
<b>MFFT</b> (DIN ISO 2115)	:	appr. + 86°C
<b>Glass Temperature (DSC)</b> (DIN 51007)	:	appr. + 100°C
<b>Ionicity</b>	:	anionic
<b>Freeze/Thaw Stability</b>	:	stable
2012-09-13 / Version 02		
* Specification values listed in our certificate of analysis		

**please turn**

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## Remarks:

Apart from the mentioned properties Makrovil SE 3603 provides an excellent transfer, high hold-out, very good blocking resistance, sandability and scratch resistance. The product is free of solvents and coalescing agents.

Makrovil SE 3603 is a very hard polymer. It is therefore necessary to modify the polymer by addition of coalescing agents (i.e. Dowanol DPM) or softer polymers (like Makrovil SE 2454 or Makrovil SE 2456) to enable film formation at room temperature.

- Gloss improvement or a softer varnish may be obtained by the combination with soft binders.

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