

TYPE

APEO free, water borne acrylic copolymer emulsion

FORM OF DELIVERY (f.o.d.)

43 % in water

DEVELOPMENT PRODUCT

This product is serving for trial purposes only. Deviations which might occur during transfer into manufacturing in a commercial scale are possible and do not constitute any material defect.

NEUTRALIZATION AGENT

0.12 % ammonia, as salt

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	10 - 300
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pH-Value DIN ISO 976

pH-value (10 %)		7,6 - 8,8
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Non-Volatile Matter DIN 55671

non-volatile matter (150 °C; 5 min)	[%]	41,5 - 44,5
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Not continually determined:

Colour / Appearance VLN 250

colour		white
appearance		opaque

Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm ³]	1,03
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Minimum Temperature of Film Formation DIN ISO 2115

minimum temp. of film form. approx.	[°C]	30
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Flash Point (CCCFP) ASTM D 6450

flash point	[°C]	> 94
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SPECIAL PROPERTIES AND USE

SETAQUA 6899 is an APEO-free, water borne acrylic copolymer emulsion especially designed for direct-to-metal applications. For proper film formation at room temperature this unique, hydrophobic acrylic emulsion requires the addition of hydrophobic coalescing agents to enable perfect film formation, good direct-to-metal adhesion and corrosion resistance performance. The use of hydrophilic coalescing agents in combination with SETAQUA 6899 is not recommended.

Dispersing agent ADDITOL® XW 6588 is a perfect synergist in combination with SETAQUA 6899 for the preparation of DTM protective coatings. SETAQUA 6899 requires the use of flash-rust inhibitors for steel substrates. As chemical nature and concentration of flash rust inhibitor systems may significantly influence dry-wet adhesion properties on metals, a careful selection must be made in this respect. Suggested guiding formulations are available on request.

Advantages:

- VOC-free binder
- shear stable
- very good corrosion resistance performance
- high and stable gloss in salt spray, gloss reduction in humidity test
- no need for anti-corrosion pigments or organic adhesion promoter/ anti-corrosion additives
- broad adhesion spectrum on various substrates including metals, CED coated metals, plastics (PS, PVC, PMMA), wood and composite materials (HPL)
- excellent mechanical properties
- outstanding early water resistance
- good blocking resistance, hardness
- very fast drying
- suitable for high pigment loading
- economical grade for temporary corrosion protection

COMPATIBILITY

In general SETAQUA 6899 has good compatibility with other anionic and non-ionic WB binders but performance and stability needs to be tested very carefully, especially with respect to corrosion resistance.

SETAQUA 6899 is compatible with a wide range of anti-corrosion pigments but stability in the final formulation needs to be tested very carefully.

STORAGE

At temperatures up to 40 °C storage stability packed in original containers amounts to at least 365 days.

It is important to protect SETAQUA 6899 from freezing; at low temperatures it should be stored under "keep from freezing" conditions.

REMARK:

Data contained in this publication are based on careful investigations (and are intended for information only). Due to scale up of this product there is not yet sufficient experience concerning serial production. We can therefore not exclude, that based on future knowledge product data and other indicated properties in upcoming Technical Data Sheets will be subject to change. We reserve the right to leave the product name unchanged, even if product data or other indicated properties will vary from the present product info. Regardless of the data contained in this publication any user is obliged to carry out tests under his own responsibility as to the suitability of the product for a particular use and to investigate the possible violation of industrial property rights of third parties. Information is therefore not binding and cannot be construed as guaranteeing specific properties of products. We apply our General Sales Conditions.