

VIACRYL[®] SC 6827W/46WA

PRELIMINARY PRODUCT INFORMATION

TYPE

Formaldehyde- and solvent-free acrylic copolymer emulsion, sole-binder

FORM OF DELIVERY (f.o.d.)

46 % in water (46WA)

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.

TENTATIVE PRODUCT DATA

Determined per batch:

| | | |
|--|---------|-------------|
| Dynamic Viscosity DIN EN ISO 3219 dynamic viscosity (100 1/s; 23 °C) | [mPa.s] | < 150 |
| pH-Value DIN ISO 976 pH-value (10 %) | | 3,5 - 5,5 |
| Non-Volatile Matter DIN EN ISO 3251 non-volatile matter (1 h; 125 °C; 1 g) | [%] | 44,5 - 47,5 |

Not continually determined:

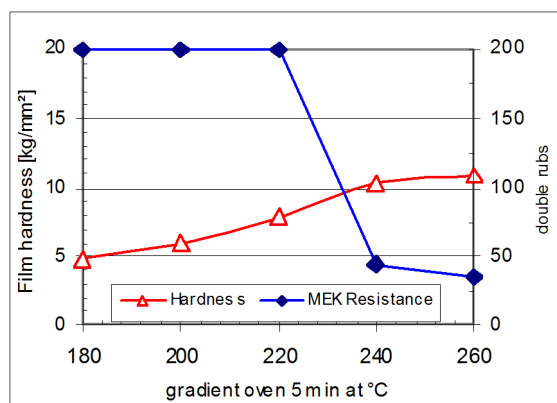
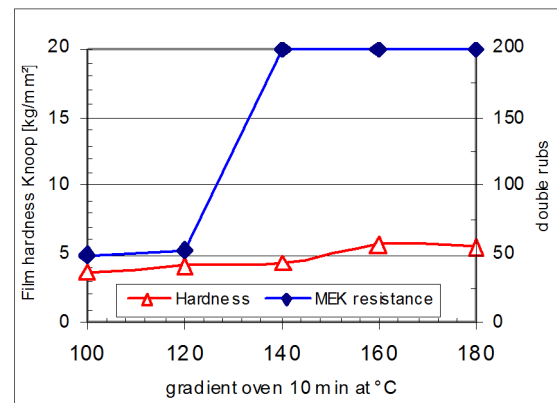
| | | |
|--|----------------------|------|
| Hydroxyl Value (cat.) DIN EN ISO 4629 hydroxyl value approx. (solids) | [mg KOH/g] | 75 |
| Acid Value DIN EN ISO 2114 acid value approx. (solids) | [mg KOH/g] | 35 |
| Minimum Temperature of Film Formation DIN ISO 2115 minimum temp. of film form. approx. | [°C] | 20 |
| Density (Liquids) DIN EN ISO 2811-2 density approx. (20 °C) | [g/cm ³] | 1,06 |
| Flash Point (Pensky-Martens) DIN EN ISO 2719 flash point | [°C] | > 93 |

SPECIAL PROPERTIES AND USE

Viacryl SC 6827w/46WA can be applied on various metal and non-metal substrates for monocoat, primer and topcoat application. Good adhesion as well as excellent chemical resistance properties against alkalines and detergents can be achieved.

When used as sole-binder, curing starts at approx. 140 °C onwards. Viacryl SC 6827w/46WA shows a very good thermo stability and no yellowing until 220 °C. The resin is shear stable and can be pigmented and grinded by bead mill in a common way.

FILM HARDNESS AND MEK-RUB RESISTANCE



STORAGE

At temperatures from 5 °C to 25 °C storage stability packed in original containers amounts to at least 365 days.

It is important to protect Viacryl SC 6827w/46WA from freezing; at low temperatures it should be stored under "keep from freezing" conditions.

DISTINGUISHING FEATURES

Viacryl SC 6827w/46WA is a formaldehyde-free and self-crosslinking epoxy-modified acrylic emulsion and is unique in our product portfolio. It releases no cleavage products during heat-curing and the form of delivery contains no organic solvents.

To get higher crosslinking density and solvent resistance Viacryl SC 6827w/46WA could also be co-crosslinked by an external crosslinking agent like isocyanate or amino resin.

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.

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