

VIACRYL[®] 1111w/70MP

PRELIMINARY PRODUCT INFORMATION

TYPE

Radiation curable cathodic depositable acrylate binder

FORM OF DELIVERY (f.o.d.)

70 % in methoxypropanol, fully neutralized (70MP)

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 (25 1/s; 23 °C)	[mPa.s]	4000 - 10000
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Non-Volatile Matter DIN EN ISO 3251 non-volatile matter (1 h; 125 °C; 1 g)	[%]	67 - 71
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Not continually determined:

Colour / Appearance VLN 250 colour appearance		yellow cloudy
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Density (Liquids) DIN EN ISO 2811-2 density approx. (20 °C)	[g/cm ³]	1,09
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Flash Point (CCCFP) ASTM D 6450 flash point	[°C]	>= 43
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SPECIAL PROPERTIES AND USE

Viacryl 1111w/70MP exhibits very fast cure response when exposed to UV light or electron beam radiation. Preferred substrates to be coated are heat sensitive metals like metalised plastics or special heat sensitive alloys. After deposition, the coating films need a short drying of 10 minutes at 80 °C to get a melted and smooth film before the UV curing step. Cured films of Viacryl 1111w/70MP demonstrate good hardness, scratch and abrasion resistance, chemical resistance and are resistant to yellowing.

Addition of suitable initiators is necessary; please refer to our starting formulation for the selection of the best suitable initiator and the ecoat preparation step.

STORAGE AND HANDLING

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 180 days.

Before using Viacryl 1111w/70MP, consult the Safety Data Sheet for additional information on safety and handling procedures and recommended personal protective equipment.

The recommended storage temperature for Viacryl 1111w/70MP is 4 °C to 40 °C. Care should be taken not to expose the product to high temperature conditions, direct sunlight, ignition sources, oxidizing agents, alkalis or acids. Storage and handling should be in stainless steel, amber glass, polyethylene or baked phenolic lined containers. Procedures that remove or displace oxygen from the material should be avoided. Do not store this material under an oxygen free atmosphere. Dry air is recommended to displace material removed from the container.

PRECAUTIONS

Avoid contact with eyes and skin. Direct contact with this material may cause severe eye and moderate skin irritation. Contact with skin may cause a crossallergic reaction in persons already sensitized to acrylate materials. Wash thoroughly after handling. Keep container tightly closed. Use with adequate ventilation.

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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