

PRELIMINARY PRODUCT INFORMATION

TYPE

Hydroxyfunctional, acrylic modified polyester; cross-linkable with polyisocyanates for the production of high solids lacquers

FORM OF DELIVERY (f.o.d.)

70 % in butyl acetate (70BAC)

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.

Average hydroxyl content (solid resin)

approx. 5.5 %

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (25 1/s; 23 °C)	[mPa.s]	800 - 1600
--------------------------------------	---------	------------

Colour Scale (Hazen) DIN EN ISO 6271-1

Hazen colour value		<= 100
--------------------	--	--------

Hydroxyl Value DIN EN ISO 4629 (VLN 283)

hydroxyl value (solid matter content)	[mg KOH/g]	170 - 190
--	------------	-----------

Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 2 g; ethyl acetate)	[%]	69 - 71
--	-----	---------

Not continually determined:

Density (Liquids) DIN EN ISO 2811-2

density ca. (20 °C)	[g/cm ³]	1,05
---------------------------	----------------------	------

Flash Point DIN EN ISO 1523

flash point ca.	[°C]	26
--------------------	------	----

SPECIAL PROPERTIES AND USE

Macrynal SM 2815, in combination with aliphathic polyisocyanates, produces high quality high solids 2-component lacquers. One specific strength of the product is the fast through-drying capability even at ambient cure conditions.

Coatings based on Macrynal SM 2815 show properties like:

- very good balance of hardness and flexibility
- very good resistance towards solvents
- very good weathering stability

Macrynal SM 2815, in combination with aliphathic polyisocyanates, is recommended for high quality 2-component lacquers with low contents of volatile organic compounds (VOC). Due to the outlined properties Macrynal SM 2815 is especially suited for topcoats and direct-to-metal monocoats in demanding outdoor applications.

STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 730 days.

DISTINGUISHING FEATURES

In comparison to Macrynal VSM 2805 coatings based on Macrynal SM 2815 show shorter surface- and through-dry times as well as higher end hardness and better chemical resistance, on the contrary the achievable paint solids is somewhat lower.

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.