DUROFTAL® FC 9511/80BAC

Technical Datasheet

PRELIMINARY PRODUCT INFORMATION

TYPE

Hydroxy-functional polyester, modified with synthetic fatty acids

FORM OF DELIVERY (f.o.d.)

80 % in butyl acetate (80BAC)

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. 4.5 %

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219		
dynamic viscosity (25 1/s; 23 °C)	[mPa.s]	3000 - 4000
Iodine Colour Number DIN 6162		
iodine colour number		<= 3
Acid Value DIN EN ISO 2114		
acid value (non volatile matter)	[mg KOH/g]	<= 4
Hydroxyl Value DIN EN ISO 4629 (VLN 283)		
hydroxyl value (solid matter content)	[mg KOH/g]	135 - 165
Non-Volatile Matter DIN 55671		
non-volatile matter (120 °C; 5 min)	[%]	78 - 82

Not continually determined:

Non-Volatile Matter DIN EN ISO 3251		
non-volatile matter (125 °C; 1 g)	[%]	78 - 82
Density (Liquids) DIN EN ISO 2811-2		
density approx. (20 °C)	[g/cm³]	1,05
Flash Point DIN EN ISO 1523		
flash point approx.	[°C]	35

SPECIAL PROPERTIES AND USE

Duroftal FC 9511, in combination with aliphatic polyisocyanates, is well suited for the production of high quality ultra-high solids 2-pack coatings which may be cured at ambient temperature or under forced drying conditions. Such coatings based on Duroftal FC 9511 are low in volatile organic compounds (VOC) and are characterized by very good mechanical properties, high gloss and excellent exterior durability.

STORAGE

At temperatures up to 30 °C storage stability packed in original containers amounts to at least 365 days.

The resin solution tends to get turbid upon storage. However, upon isocyanate crosslinking the intrinsic turbidity completely disappears and does not impair technical properties of cured paint films.

DISTINGUISHING FEATURES

Duroftal FC 9511 shows markedly quicker through-drying and hardness build-up in comparison with Macrynal SM 2805 or Vialkyd AC 9510N while overall properties of the cured films are comparable.

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.