MODAFLOW® Lambda

Technical Datasheet

PRELIMINARY PRODUCT INFORMATION

TYPE

Acryl-silicone hybrid flow promoter

FORM OF DELIVERY (f.o.d.)

Active substance

approx. 100 %

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:

Colour / Appearance VLN 250		
colour		colourless to slightly yellow
appearance		clear
Dynamic Viscosity DIN EN ISO 3219		
dynamic viscosity (25 1/s; 23 °C)	[mPa.s]	10000 - 30000
Colour Scale (Hazen) DIN EN ISO 6271-1		
Hazen colour value		< 350
Non-Volatile Matter DIN 55671		
non-volatile matter (120 °C; 10 min)	[%]	> 95,0
Refractive Index DIN 53491		
refractive index (25 °C)		1,4660 - 1,4690

Not continually determined:

Density (Liquids) DIN EN ISO 2811-2		
density approx. (20 °C)	[g/cm³]	1,07
Flash Point (CCCFP) ASTM D 6450		
flash point	[°C]	> 95

SPECIAL PROPERTIES AND USE

Suitable for radiation curing systems.

MODAFLOW LAMBDA is a unique acryl-silicone polymer hybrid technology flow promoter combining individual efficiencies from high end acrylic as well as silicone leveling performance.
It is highly compatible in all non-aqueous clear coat and topcoat formulations and outperforms surface characteristics such as
- gloss
- DOI
- sharpness & brilliancy
- anti orange-peel effect.

It is efficient at low dosage levels and incorporates easily in many solvent borne resin types including high solids and ultra-high solids. Further it can be applied in solvent free and radiation curing systems.MODAFLOW LAMBDA demonstrates superior balance of compatibility and effectiveness compared to traditional silicone or acrylic flow and leveling additives in Automotive OEM, refinish as well as industrial coatings.
Due to its high hydroxyl functionality, MODAFLOW LAMBDA may be co cross-linked in stoving or 2K systems and does not show a decrease in interlayer adhesion. In multiple layer systems the stoving temperature should not exceed 130 °C to ensure a good recoatability.

The recommended dosage level is 0.05 % calculated on total formulated coatings as a starting point and optimum dosage range is between 0.05 % - 0.3 %. In some cases the dosage could be increased up to 0,5 %.

STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 1460 days.

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.