

TYPE

Oil-free, saturated polyester

FORM OF DELIVERY (f.o.d.)

60 % in methoxypropyl acetate (60MPAC)

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity [mPa.s] 4000 - 8000
(25 1/s; 23 °C)

Iodine Colour Number DIN 6162

iodine colour number <= 3
50 % propylene glycol methylether acetate

Acid Value DIN EN ISO 2114

acid value [mg KOH/g] <= 5
(non volatile matter)

Non-Volatile Matter DIN 55671

non-volatile matter [%] 58 - 62
(120 °C; 5 min)

Not continually determined:

Non-Volatile Matter DIN EN ISO 3251

non-volatile matter [%] 58 - 62
(1 h; 125 °C; 1 g)

Density (Liquids) DIN EN ISO 2811-2

density [g/cm³] 1,14
approx.
(20 °C)

Flash Point DIN EN ISO 1523

flash point [°C] 50
approx.

SPECIAL PROPERTIES AND USE

Very good levelling at roller application, high deformability, colour stable.

Duroftal VPE 6104/60MPAC is especially suited for the production of cold-resistant tube coatings and sterilizable, cupping exterior can coatings and aerosol tin paints as well as sealers.

Furthermore, Duroftal VPE 6104/60MPAC serves as replacement of epoxy resins in phenol-epoxy-systems in order to get paints which do not contain BADGE or Bisphenol A. Duroftal VPE 6104/60MPAC is compatible with some phenolic resins (e.g. Phenodur PR 612 and VPM 1150). Such combinations (solid resin ratio VPE 6104 : PR 612 : VPM 1150 = 55 : 35 : 10) show good acid retort resistance (e.g. against 2 % lactic acid, 120 °C / 60 minutes), good adhesion and flexibility. The lacquers do not contain neither Bisphenol A, nor BADGE.

PROCESSING

Can paints (pigmented and silver lacquers) are formulated for example with a combination of Duroftal VPE 6104/60MPAC with Cymel 1123 (about 80 : 20, calculated solids on solids). The curing conditions are 15 minutes 180 - 200 °C.

STORAGE

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

DISTINGUISHING FEATURES

Compared to Vialkyd AN 908, Vialkyd VAN 4387, Vialkyd AN 950, sterilization proof silver lacquers with deionized water can only be achieved with Duroftal VPE 6104/60MPAC in combination with Cymel 1123 (<= 90 minutes, 130 °C, stoved at 15 minutes 190 - 200 °C).

