

TYPE

Oil-modified, air-drying polyurethane resin

Soya oil type

FORM OF DELIVERY (f.o.d.)

55 % in Shellsol D 60 (55SD60)
(containing also 2.7 % methoxypropanol)

RESIN COMPOSITION

(approx.)

62 % oil
15 % phthalic anhydride

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity	[mPa.s]	280 - 560
45 % Shellsol D 60		
(100 1/s; 23 °C)		

Iodine Colour Number DIN 6162

iodine colour number		<= 8
50 % Shellsol D 60		

Acid Value DIN EN ISO 2114

acid value	[mg KOH/g]	< 5
(nfA)		

Non-Volatile Matter DIN 55671

non-volatile matter	[%]	53 - 57
(120 °C; 5 min)		

Not continually determined:

Non-Volatile Matter DIN EN ISO 3251

non-volatile matter	[%]	53 - 57
(1 h; 125 °C; 1 g)		

Density (Liquids) DIN EN ISO 2811-2

density	[g/cm³]	0,92
approx.		
(20 °C)		

Flash Point DIN EN ISO 1523

flash point	[°C]	47
approx.		

SPECIAL PROPERTIES AND USE

Vialkyd TO 608 is an oil-modified polyurethane resin which does no longer contain free isocyanate and is characterized by rapid initial and through-drying and high resistance to water after appropriate drying. It is used as single binder in wood, floor and industrial finishes and in primers. Rapid drying and high resistance to chemicals and water are the most remarkable characteristics of Vialkyd TO 608. Finishes on the basis of Vialkyd TO 608 are readily brushable, display excellent flow properties and yield films of high strength already after short drying.

In combination with long-oil alkyd resins its drying properties are considerably improved. Addition of up to 30 % of Vialkyd TO 608 to other long-oil alkyd resins does not impair their respective outdoor performance.

PROCESSING

The combination of cobalt and zirkonium driers may impair the quality of colours. For achieving good drying of clear varnishes it is therefore suggested to add 0.01 - 0.03 % Co and 0.05 - 0.1 % Zr (ratio of metal to solid resin). In order to avoid skinning in storage containers, addition of an anti-skinning agent is indispensable, e. g. 1 - 1.5 % Additol XL 297 (referred to solid resin).

STORAGE

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

DISTINGUISHING FEATURES

Vialkyd TO 608/55SD60 differs from Vialkyd TO 608/55WS only in its solution of Shellsol D60.

