

TYPE

High reactivity non-plasticized, methylol type of n-butylated/ethylated urea formaldehyde resin with Acid curing non-plasticized urea resin, low odour

FORM OF DELIVERY (f.o.d.)

60%ig in ethanol/butanol (60EB)

SPECIAL PROPERTIES AND USES

Very low odour, best stability in acid curing systems. Excellent light and heat stability. High abrasion resistance, very good resistance to chemicals.

Cold curing lacquers and paints for wood, wood floors, furniture. With nitrocellulose for NC acid curing paints. Application on automatic coating lines with hot air-drying.

SPECIFICATION

Determined per batch:

Properties

Viscosity EN ISO 3219-B

(25 1/s; 23°C) [mPas] 290-490

Non Volatile Matter

DIN EN ISO 3251 1h, 125°C, 2g+2ml l-Butanol [%] 58-62

Iodine Colour Number

DIN 6162 [mg I/100ml] <=2

Acid Value

DIN EN ISO 2114 [mgKOH/g] <5

Not continually determined :

Density (Liquids)

DIN EN ISO 2811-2 [g/cm³] 1,02

Flashpoint (5 to 65°C)

DIN 53213 p1 [°C] 24

Formaldehyde Content

(Sulfite) DIN EN ISO 11402 [%] <2

USES:

Acid curing systems

Viamin HF244/60EB has been designed for the formulation of low odour acid curing paints, with low content of free formaldehyde and unlimited dilutability with low odour solvents (e.g. ethanol, glycolethers).

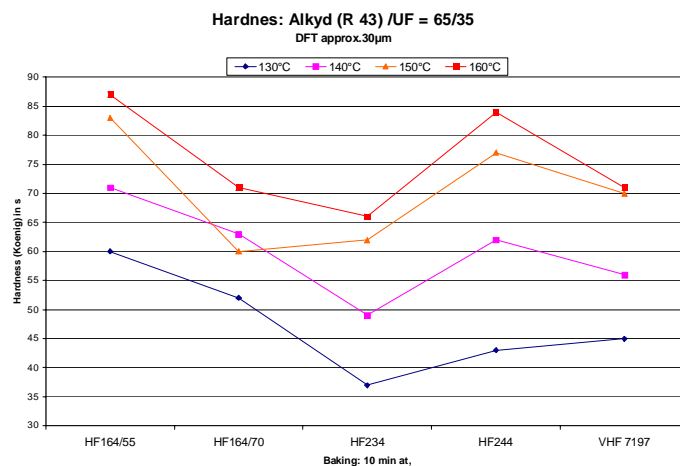
As non plasticized amine resin, Viamin HF244 must be combined with plasticizing materials, in form of short to medium oil drying and non drying Alkyd grades. Drying Alkyds plasticize and enhance surface hardness. The solids ratio Alkyd/Urea may range from 40:60 to 60:40 depending on the selected Alkyd resin.

Two component systems

Rapid curing enamels are obtained by catalyzing with 1-2% of 36% hydrochlorid acid or 3-4% p-toluenesulfonic acid, calculated on Viamin solids. Some kinds of wood, like beech, suffer less discolouration with p-toluenesulfonic acid. Corrosion of furniture fittings or of curtain coaters or curing equipment is avoided. In two component systems the acid catalyst is added to the paint as alcoholic dilution prior to application.

Stoving enamels:









Reactivity for : VHF 164/55 > HF 164/70 > HF 244 > VHF 7197 > HF 234



STORAGE STABILITY:

At temperatures up to 25°C storage stability of Viamin HF244 packed in original containers amounts to at least 9 month.



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