

TYPE

Reactive non-plasticized, N-H type of n-butylated urea formaldehyde resin

SPECIAL PROPERTIES AND USES

High reactivity, rapid through curing.
Excellent heat and light resistance.
Very good stability in acid curing paints.

FORM OF DELIVERY (f.o.d.)

55%ig in butanol (55B)

Cold curing paints for wood, floors, furniture.
Combination partner for stoving primers and NC-lacquers.

SPECIFICATION

Determined per batch:

Viscosity EN ISO 3219-B
(25 1/s; 23°C) [mPas] 980-1420

Non Volatile Matter
DIN EN ISO 3251
1h, 125°C, 2g+2ml l-Butanol [%] 53-57

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

Acid Value
DIN EN ISO 2114 [mgKOH/g] <1

Not continually determined:

Density (Liquids)
DIN EN ISO 2811-2 [g/cm³] 1,00

Flashpoint (5 to 65°C)
DIN 53213 p1 [°C] 38

Formaldehyde Content (Sulfite)
DIN EN ISO 11402 [%] <1

USES:

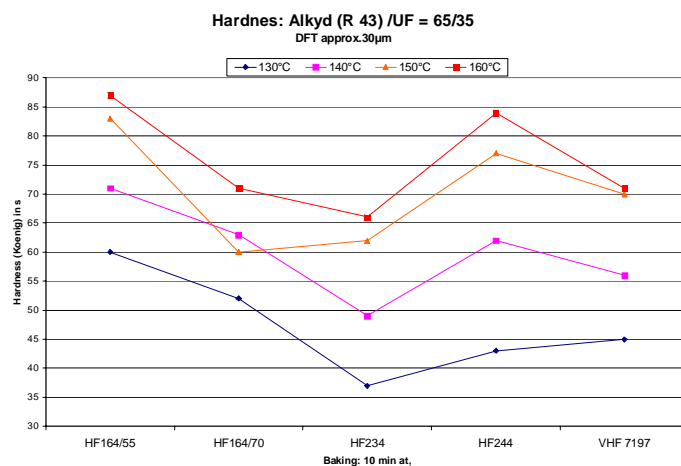
Acid curing paints

Viamin HF234 is an excellent binder for mild odour acid curing paints in one or two component systems.

Viamin HF234 as non-plasticizing urea resin must be combined with flexible paint raw materials. Suitable plasticizing components are short and medium oil drying and non-drying Alkyd resins. The blending solids ratio of Viamin HF234 with alkyd resins depends on the desired hardness and may range from 40:60 to 60:40. Higher levels of urea resins accelerate drying and give more brittle films. Wood enamels on Viamin HF234 have excellent chemical resistance (e.g. to cleansers and alcoholic beverages) and are thus excellent binders for floor sealers and wearproof furniture enamels.

Acid curing paints with rapid cure are catalyzed with 3-4% of p-toluenesulfonic acid, calculated on Viamin HF234 solids. The optimum acid level has to be determined for the individual formulation. P-toluenesulfonic acid takes longer to cure at ambient temperature and is therefore employed often in combination with force-drying. The pot life of these paints is longer. In two-pack systems the hardener is added to the paint as alcoholic dilution prior to application.

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



STOVING PRIMERS:

In stoving paints Viamin HF234 is combined with Alkyd resins in a solids ratio of 60:40 to 70:30. For optimum performance a stoving schedule of 30min at 130-150°C should be chosen.

STORAGE STABILITY:

At temperatures up to 25°C storage stability of Viamin HF234 packed in original containers amounts to at least 9 month.



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