SYNOCURE®

TECHNICAL DATA SHEET

SYNOCURE® 213 BA 50

Acrylic polyol

PRODUCT APPLICATION DETAILS

SYNOCURE® 213 BA 50 is a fast drying, hydroxy functional acrylic resin designed to crosslink with polyisocyanates under ambient or force dry conditions.
SYNOCURE® 213 BA 50 is specifically adapted to use in varnishes for industrial furniture finishing.
SYNOCURE® 213 BA 50 quickly achieves a good blocking resistance and in spite of its relatively low hydroxyl value provides a good resistance to household chemicals.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	49 - 51 %	ISO 3251
Viscosity (Brookfield RVT, 20rpm, sp4) (23°C)	2500 - 4000 mPa.s	ISO 2555
Color (Iodine Colour index)	1 max	DIN EN 1557
Acid value	12 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS[1]

	CHARACTERISTICS	METHODS
Solvent	Butyl acetate	-
Flash point	25 °C	ISO 3679
Density	1.02 g/ml	ISO 2811
Hydroxyl content	1.3 %	-

[1] The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

MARKETS & APPLICATIONS

Coatings & Inks

- Industrial Coating
  - Wood Furniture
  - Industrial Wood Finishes

PERFORMANCE BENEFITS

- Good blocking resistance
- Good resistance to household chemicals

SYNOCURE® 213 BA 50

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOCURE® 213 BA 50 may be reacted with most aliphatic and aromatic types of polyisocyanates, like Desmodur® N 75, N 3390, L, HL, IL [1] or Tolonate™ HDB 75 MX [2]. The compatibility with Desmodur® HL series [1] however may be affected after prolonged storage of the polyisocyanate.
Due to the quick physical drying of SYNOCURE® 213 BA 50 an addition of catalysts is normally not required.
SYNOCURE® 213 BA 50 may be pigmented with all neutral pigments and extenders.
The reaction ratio is calculated from the respective equivalent weight or hydroxyl and isocyanate content of the reactants. The relationship is:
Hydroxyl Equivalent Weight = (17*100) / %OH
Isocyanate Equivalent Weight = (42*100) / %NCO

SOLUBILITY

SYNOCURE® 213 BA 50 may be thinned in all solvents suitable for 2 K-PU-systems, like esters, aromatic hydrocarbons and ketones.

COMPATIBILITY

SYNOCURE® 213 BA 50 is compatible with cellulose acetate butyrates, nitrocellulose, some PVC-copolymers and SYNOLAC® 1529 BA 80.

Notes: [1] Bayer MaterialScience, [2] VENCOREX® Chemicals

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOCURE® 213 BA 50 should be stored indoors in the original, unopened and undamaged container, in a dry place at a temperature not exceeding 30°C. Exposure to direct sunlight should be avoided.
In the above mentioned storage conditions the shelf life of the resin will be from the shipping date.
Shelf Life (Months): 12

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