

## TECHNICAL DATA SHEET

# UNITHANE® 373 X 60

Modified alkyd

### PRODUCT APPLICATION DETAILS

UNITHANE® 373 X 60 is a very fast drying, urethane modified, short oil alkyd especially for combinations with polyvinylchloride copolymers.

UNITHANE® 373 X 60 is particularly suited to the manufacture of protective coatings for industrial use in combination with PVC-copolymers, e.g. for agricultural machines, containers or chassis paints.

UNITHANE® 373 X 60 distinguishes by its very rapid drying and quick development of hardness even in thick films. Dry films show a good adhesion, water resistance and excellent anti corrosive properties. Combinations with PVC-copolymers, achieve an excellent chemical resistance and a minimum permeability for water vapour.

### SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	59 - 61 %	ISO 3251
Reduced viscosity (4mm, 50% in Xylene) (20°C)	120 - 150 s	DIN 53 211
Color (Iodine Colour index) (50% in Xylene)	5 max	DIN EN 1557
Acid value	3 max mg KOH/g	ISO 2114

### OTHER CHARACTERISTICS<sup>1</sup>

	CHARACTERISTICS	METHODS
Viscosity (Brookfield RVT , 20rpm)	4000 mPa.s	ISO 2555
Solvent	Xylene	-
Flash point	23 °C	ISO 3679
Density	1 g/ml	ISO 2811
Fatty acid type	Drying, vegetable fatty acids	-
Fatty acid content	37 %	-
Modification	Urethane	-

<sup>1</sup>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
  - General Industry
  - Protective And Marine Coating

# UNITHANE® 373 X 60

## FORMULATION GUIDELINES

### **DRIERS**

UNITHANE® 373 X 60 shows an excellent drying with 0,02% - 0.04% cobalt and 0.6% - 0.9% zirconium (metal on solid resin). Depending on the formulation (clear, pigmented, thixotropic, etc...) and on the application, the loading of each drier may be increased or reduced in order to achieve the appropriate drying/hardness profile.

The use of antiskinning agent is essential to prevent in-can skinning of the finished product.

### **SOLUBILITY**

UNITHANE® 373 X 60 is completely soluble in aromatic hydrocarbons, esters, ketones and partially soluble in low flash point white spirit and alcohols.

### **COMPATIBILITY**

UNITHANE® 373 X 60 is compatible with many short- and medium-oil alkyds, like SYNOLAC® 271 X 60, 272 X 60, 385 X 60, Laroflex® series <sup>(1)</sup>, Laropal® K80 <sup>(1)</sup> and nitrocellulose. It is incompatible with long-oil alkyds and styrenated alkyds.

UNITHANE® 373 X 60 can easily be pigmented with titanium dioxide pigments and most inorganic and organic colour pigments. In anticorrosive systems zinc phosphate pigments can be used.

Notes: <sup>(1)</sup> BASF

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND HANDLING

UNITHANE® 373 X 60 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.

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