# UNITHANE® 612 S 60

GENERAL INDUSTRY ARKEMA COATING RESINS

## Product Application details

UNITHANE® 612 S 60 is a fast drying short oil alkyd resin, obtained thanks to a specific selective condensation process, which allows to obtain a film with optimum resistance to outdoor exposure, hardness and chemical resistance.

The UNITHANE® 612 S 60 is particularly adapted for the formulation of anti-rust primers and varnishes.

The film of varnish formulated with UNITHANE® 612 S 60 exhibits a very good resistance to water, even after a very short drying time  $(3h - 75\mu m)$ .

## Polymer Type

Solventborne Urethane Alkyd

### Sales Specifications

Solid Content at 125°C, % (ISO 3251)	59 - 61
Viscosity at 25°C, mPa.s (Brookfield) (ISO 3219)	2500 - 3600
Colour, Gardner scale (ISO 4630)	8 max
Acid value, mg KOH/g (ISO 2114)	10 max

### Other Characteristics<sup>1</sup>

Volatile	Xylene / butyl acetate
Flash point, °C (ISO 3679)	27
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	1.036
Type of fatty acid	Vegetable fatty acids
Fatty Acid content, %	36

Note: Acid value and/or Hydroxyl value guoted relative to solid resin

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

#### DRIERS

The following driers combination is recommended to siccativate the UNITHANE $^{\$}$  612 S 60, it is calculated for 100g of neat resin:

cobalt: 0.05 zirconium: 0.15 calcium: 0.2

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.

## Formulation Guidelines

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

#### **SOLUBILITY**

UNITHANE® 612 S 60 completely soluble in aromatic hydrocarbons, esters and ketones and partially soluble in aliphatic hydrocarbons and alcohols.

#### **COMPATIBILITY**

UNITHANE® 612 S 60 is completely compatible with short oil alkyd resins, melamine resins and ureic and has a limited compatibility with medium and long oil alkyds, epoxy ester and nitrocellulose the compatibility should be checked taking into account the targeted ratio of resins considered.



Product Safety	Please refer to the corresponding Safety Data Sheet.
Storage & Handling	UNITHANE® 612 S 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 6 months from the shipping date

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#### **Arkema Coating Resins**

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