UNITHANE® 655 WDA 55

ARCHITECTURAL COATINGS

ARKEMA COATING RESINS

UNITHANE®

Product Application details	UNITHANE [®] 655 WDA 55 is an urethane alkyd designed for use finishes, which can be used in combination with long oil alkyds in a and abrasion resistance while maintaining excellent gloss retention. UNITHANE [®] 655 WDA 55 can be used in pigmented decorative glo should comprise between 20-50% of the media, the balance being a In thixotropic decorative gloss and eggshell finishes, similar percenta resistant and rapid drying finishes are obtained, with the durability, chalking characteristics of the alkyd resin being retained. For interior varnishes, it is recommended that UNITHANE [®] 655 WD binder. The resin is supplied in high flash low aromatic white spirit to coatings that do not require adverse environmental labelling.	order to increase hardness ss or eggshell finishes and suitable long oil alkyd. ages can be used. Abrasion pigment wetting and non- DA 55 be used as the sole
Performance Benefits	 Rapid drying High gloss Good abrasion resistance Good chemical resistance 	
Polymer Type	Solventborne Urethane Alkyd	
	Solid Content at 125°C, % (ISO 3251)	54 - 56
Sales	Viscosity at 25°C, mPa.s (Brookfield) (ISO 3219)	1300 - 2000
Specifications	Colour, Gardner scale (ISO 4630)	6 max
	Acid value, mg KOH/g (ISO 2114)	3 max
Other Characteristics ¹		ow aromatic white spirit
	Flash point, °C (ISO 3679)	62
	Density / Specific Gravity at 25°C, g/ml (ISO 2811) Type of fatty acid	0.92 Linoleic rich
	Fatty Acid content, %	61
	NCO content (delivery form), %	0.1 max
	Note: Acid value and/or Hydroxyl value quoted relative to solid resin	
	1 The data provided for these properties are typical values, intended only as guides, and should not be co	nstrued as sales specifications
Formulation Guidelines	DRIERS UNITHANE® 655 WDA 55 requires metal driers to accelerate the autoxidation process. A suitable combination is 0.05% cobalt, 0.15% zirconium and 0.2% calcium, calculated as metals on total 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. <u>SOLUBILITY</u> UNITHANE® 655 WDA 55 is soluble in aliphatic and aromatic hydrocarbons, esters and ketones ans has a limited solubility in alcohols. <u>COMPATIBILITY</u> UNITHANE® 655 WDA 55 is compatible with most long oil alkyds, some medium oil alkyds and most thixotropic alkyds.	

<u>OTHER ADDITIVES</u> Thixotropic varnishes are obtained by the addition of 10-50% of thixotropic alkyds: GELKYD[®] are suitable for this purpose.

Product Safety	Please refer to the corresponding Safety Data Sheet.	
Storage &	UNITHANE [®] 655 WDA 55 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.	
Handling	In the above mentioned storage conditions the shelf life of the resin will be 6 months from the shipping date	

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