

UNITHANE 655W55

Modified Alkyd Resin

Product Information

UNITHANE 655W55 is a urethane alkyd designed for use in clear and pigmented finishes. It can be used as the sole medium or in combination with long oil alkyds. Rapid drying, high gloss, good abrasion resistance and good chemical resistance are features of varnishes based solely on **UNITHANE 655W55**. **UNITHANE 655W55** can be used in combination with long oil alkyds and will increase hardness and abrasion resistance whilst maintaining excellent gloss.

Sales Specification

Non-volatile content, % (ISO 3251, 1h, 125°C)	54 – 56
Viscosity at 25°C, Gardner Holdt (DIN 53 015)	XY – YZ
Colour, Gardner scale (ASTM D1544)	Max. 6
Acid value, mg KOH/g (ASTM 3682)	Max. 3

Other Properties

Volatile	White Spirit
Density at 25°C, g/cm ³ (ISO 2811)	0.92
Type of oil / fatty acid	Soy Bean Oil
Oil / fatty acid content, %	61

Noted: Acid value quoted relative to solid resin

Recommendations for Use

UNITHANE 655W55 can be used in pigmented decorative gloss or eggshell finishes and should comprise between 20-50 per cent of the media, the balance being a suitable long oil alkyd. In thixotropic decorative gloss and eggshell finishes, similar percentages can be used. Abrasion resistant and rapid drying finishes are obtained, with the durability, pigment wetting and non-chalking characteristics of the alkyd resin being retained.

For interior varnishes and related finishes, it is recommended that **UNITHANE 655W55** be used as the sole binder.

UNITHANE 655W55 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. Slight variations in the zirconium and calcium drier levels may be appropriate for particular paint systems.

To prevent skinning of the coating in the can, volatile anti-skinning agents such as methyl ethyl ketoxime are recommended; 0.2-0.5% calculated on resin solids is usually adequate for both clear and pigmented finishes.

UNITHANE 655W55

Recommendations for Use

Solubility

Aromatic hydrocarbon	Complete
Aliphatic hydrocarbon	Complete
Ester	Complete
Ketone	Complete
Alcohol	Partial

Compatibility

Long Oil Alkyd	Very Good
Thixotropic Alkyd	Good
Medium Oil Alkyd	Fair

Precautions for Use

Please refer to corresponding Safety Data Sheet.

Storage Recommendations

UNITHANE 655W55 should be stored under shelter in the original containers at temperature not exceeding 35°C. Avoid exposure to direct sunlight.

Shelf Life

Under the above mentioned storage conditions the shelf life of the resin will be 12 months.



The world is our inspiration

Arkema Coating Resins Malaysia Sdn Bhd
PLO 491, Jalan Keluli,
Pasir Gudang Industrial Estate,
81700 Pasir Gudang, Johor, Malaysia

Telephone:

(60) 7-253 6688

Fax:

(60) 7-251 8453

IMPORTANT: The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Arkema expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; **NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN.** The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

Visit our website:
www.arkemacoatingresins.com

© Arkema Inc. All rights reserved.
UNITHANE® is a trademark of Arkema Inc.
Version: 00 / November 2011