FORREST Technical Coatings

35U Series Technical Data Sheet

PRODUCT DESCRIPTION

A high performance, two-component Acrylic Polyurethane designed for application on a variety of substrates including fiberglass, ferrous metals, properly prepared non-ferrous metals, and a variety of plastics.

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Sheen: Gloss

PRODUCT AND PERFORMANCE DATA

Product Data

Property	Result
Volume solids (%)	38 – 48 ± 2
Weight solids (%)	40 – 62 ± 2
VOC	492 – 595 g/l 4.1 – 5.0 lb/gal
Recommended dry film thickness	1.5 – 5 mils
Recommended wet film thickness	4 – 10.5 mils
Theoretical Coverage (1.0 mil)	610 – 770 ft²/gal
Dry to Handle @ 75 F. and 50% RH	1 hour
Recoat @ 75 F. and 50% RH	<45 min or after 8 hours
Full Cure @ 75 F. and 50% RH	1 week
Pot Life @ 75 F. and 50% RH	2-3 hours

Performance Data

Test Method	Standard	Result
Gloss @ 60°	ASTM D523-14	90+
Adhesion	ASTM D3359	5B
Impact Resistance	ASTM D2794-90	>120 in-lbs
Pencil Hardness	ASTM D3363	5H

Testing performed on 35U100 (white) after 15 min @200°F on CRS

FORREST Technical Coatings www.forrestpaint.com Ph: (800) 537-7201
1011 McKinley Street info@forrestpaint.com (541) 342-1821
Eugene, OR 97402 USA

SURFACE PREPARATION

Pre-cleaning:
Clean all surfaces to be coated in accordance with SSPC-SP-1, Solvent Cleaning prior to additional surface preparation or coating application. Surface must be clean, dry and free of any dirt, dust, oil, and all other visible contaminates.

Surface Preparation

Recommended	SSPC SP 6 (Commercial Blast Cleaning)
Minimum	SSPC SP 2 or SP 3 (Hand or Power Tool Cleaning)

Suitable Primers: For metal - Forrest's 16P, 19P, 26P, 216P

MIXING AND THINNING

Before application, mechanically mix for 5 minutes at the ratio of **3:1**.

3 parts 35U to 1 part U-99 catalyst

Catalyst	46K001 (U-99)	Volume Solids: 35%	VOC: 583 g/l, 4.9 lb/gal

Mix Directions
Stir thoroughly before and occasionally during use.

Thinning Directions
Product packaged ready to apply. If needed thin up to 10% maximum with Forrest's 81T011, Polyurethane Thinner.

APPLICATION

Application Parameters

Relative Humidity	<70%
Minimum Temperature	50°F (10°C)
Maximum Temperature	80°F (27°C)

The application temperature must be a minimum of 5°F above the dew point.

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Force Cure Schedule

Temperature	200°F (93°C)
Time	15 minutes

Application methods
The product can be applied by

Spray
Airless spray: 0.009” - .015”

Conventional spray: 1.0mm – 1.8mm

Brush/Roll Recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.

STORAGE

Storage
The product must be stored in accordance with local and national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Shelf life at 73°F (23 °C) = a minimum of 12 months *

*When kept in recommended storage condition and original unopened containers.

CAUTION
Adequate health and safety precautions should be observed during storage, handling, use and curing periods.

READ SAFETY DATA SHEETS BEFORE USING THIS PRODUCT

DISCLAIMER

The technical data and suggestions for use in this product data sheet are currently correct to the best of our knowledge, but are subject to change without notice. Because application and conditions vary, and are beyond our control, we are not responsible for results obtained in using this product, even when used as suggested. The user should conduct tests to determine the suitability of the product for the intended use under then existing conditions. Our liability for breach of warranty, strict liability in tort, negligence or otherwise is limited exclusively to replacement of the product or refund of its price. Under no circumstances are we liable for incidental or consequential damages.

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