FORREST Technical Coatings

83E Series Technical Data Sheet

PRODUCT DESCRIPTION

A versatile water-reducible alkyd for use on metal substrates for interior and exterior exposure. A high-gloss product with excellent adhesion and corrosion resistance.

PRODUCT AND PERFORMANCE DATA

Product Data

Property	Result
Volume solids (%)	27 ± 2
Weight solids (%)	31 ± 2
VOC	409 ± 2 g/L 3.4 lb/gal
Recommended dry film thickness	1 – 3 mils
Recommended wet film thickness	3.5 - 11 mils
Theoretical Coverage (1.0 mil)	433 ft²/gal
Dry to Handle *	1 hour

* Dependent on relative humidity
Data taken from fully cured 83E200

Performance Data

Test Method	Standard	Result
Gloss @ 60°	ASTM D523-14	80 - 100
Adhesion	ASTM D3359	5B
Impact Resistance	ASTM D2794-90	>100 in-lbs
Pencil Hardness	ASTM D3363	H

Data taken from fully cured 83E200

Performance Data

Test Method	Standard	Result
Gloss @ 60°	ASTM D523-14	85+
Adhesion	ASTM D3359	5B
Impact Resistance	ASTM D2794-90	>120 in-lbs
Pencil Hardness	ASTM D3363	2H

Data taken from fully cured 83E511

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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: Forrest's 16P, 26P, 216P - Not compatible with 84P Series primer

MIXING AND THINNING

Mix Directions
Stir thoroughly before and occasionally during use.

Thinning Directions
Product packaged ready to apply. If needed thin up to 10% maximum with water.

APPLICATION

Application Parameters

Relative Humidity	< 80%
Minimum Temperature	40°F
Maximum Temperature	80°F

**The application temperature should be at minimum 5°F above the dew point.*

Application methods
The product can be applied by:

Spray
Airless spray: 0.011" – 0.015"

Conventional spray: 0.8mm – 1.8mm

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

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Dip Tank: Submerge products in to coating and remove to dry.

STORAGE

Do Not Allow to Freeze! 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) = 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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