Sumter Coatings™

Product Data Sheet

NuCharge A-Thane II

554-555 series

PRODUCT DESCRIPTION

Type

Electrostatically applied two component acrylic polyurethane.

Description

NuCharge A-Thane II is a two-component, high performance acrylic polyurethane designed for exterior usage when superior corrosion and chemical resistance is desired. It provides resistance to gasoline, solvents, and brine. The 555 series are full gloss, and the 554 series are semi-gloss.

Uses

- Metal Buildings
- Aluminum Extrusions
- Wrought Iron railings and fencing
- Exterior furniture, recreational equipment, and machinery

Features

- Gloss & semi-gloss finishes available
- Custom color bases including metallic and mica
- Long pot life of 6 hours
- V.O.C. less than 2.8 lbs. / gal.
- Superior exterior durability

SUBSTRATE & SURFACE PREPARATION

All

Substrate must be clean, dry and free of contaminants.

Steel & Iron

The minimum surface preparation for steel and iron is Hand Tool Cleaning per SSPC-SP2. Power Tool Cleaning per SSPC-SP3 is preferred for better performance. Prior to either procedure, the surface should be solvent cleaned per SSPC-SP1. Feathering around scratches is recommended because certain surfaces may lift when coated. A quick test should be conducted in an inconspicuous area to determine if a base coat should be removed or primed.

Primer

Low VOC EZ Electrostatic Universal Primer (211 Series), or **214D7185 NuCharge It Low VOC Primer.**

MIXING & THINNING

Ratio

2 – components. Mix base and cure components at a 4:1 ratio. The curing agent is **554X4070A NuCharge A-Thane II Activator**. Ensure both components are above 45°F before mixing and using.

Mixing

Mix the base and component thoroughly before use by boxing or with mechanical agitation.

Thinning

Thinning is not normally needed. Add **560X1557 NuCharge It VOC Exempt Reducer** as required. Add 3-4 ounces of **480X9999 Roll-A-Glaze** per mixed gallon to reduce dry spray and orange peel, if required. **480X9999 Roll-A-Glaze** can be added to help add a wet edge for spraying large parts and to aid in brush and roll applications.

Pot Life

6 hours sprayable @ 77°F.

Cleanup

Use NuCharge It Reducer (**560X2005**).

APPLICATION GUIDANCE

Application Conditions

Excessive film or surface contamination may cause adhesion problems and solvent entrapment. DO NOT USE IN HEATED AIRLESS EQUIPMENT, as gelling will occur.

Brush

Brush application in small areas

Roller

Short nap or mohair phenolic core roller. Thinning is not normally needed. Add **560X1557 NuCharge It VOC Exempt Reducer** as required. Add 3-4 ounces of **480X9999 Roll-A-Glaze** per mixed gallon to reduce dry spray and orange peel, if required.

Spray

This product may be applied by electrostatic, conventional, HVLP, and airless equipment.

CURE TIME & RECOAT WINDOW

Substrate Temperature	To Touch	Tack Fee	To Recoat	Full Cure
75°F (24°C)	1 hour	2-3 hours	When dry to handle	7 days

Drying times are dependent upon film thickness, temperature and humidity.

Sumter Coatings™

Product Data Sheet

NuCharge A-Thane II

554-555 series

PACKAGING, ESTIMATING & HANDLING

Product	Code	Packaging
NuCharge A-Thane II	554-555 series	1-gallon pails filled 80%.
NuCharge A-Thane II Activator	57X4070A-G.25	Short filled quarts to allow full 1-galln kits when mixed.

Theoretical Coverage

350-700 ft^2 / catalyzed gallon @ 1.0 – 2.0 mils dry film thickness.

Storage & Shelf Life

Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 2 years when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.

Safety

Mixes and applications of this product present several hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

Ventilation

Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
*Specific properties below are of **555T1000 Gloss White***	
Colors	Full range
Gloss	• High Gloss 90+ units, **555T1000** • Semi-gloss 30-40 units, **554T1000**
Pot Life	6 hours *Do not use catalyzed material that has exceeded its pot life.*
Volume Solids	46%
Viscosity	34-44" Zahn 2
Recommended DFT	370-737 ft^2 / catalyzed gallon @ 1.0 – 2.0 mils dry film thickness.
Flash Point	Mixed 64.4°F
VOC	<2.8 lbs. / gal. (334 g/L) mixed
Weight / gallon	11.3 lb./gal. base component
Temperature Resistance	250°F
Shelf Life	2 years unopened and unactivated

Rev 01/2025

Sumter Coatings, Inc. | 2410 Hwy. 15 S., Sumter, SC 29150| 888-471-3400 Fax | 803-481-37763595 Phone | sumtercoatings.com