



# Highland International, Inc.

## Technical Data Sheet



### 854 Series High Solids Modified Silicone Alkyd DTM (Urethane Modification Optional)

854 Series is a single package Direct to Metal Modified Silicone Alkyd. When 854A100 Urethane Modifier is added, corrosion resistance is enhanced and it may be applied over marginally prepared surfaces (tightly bonded rust). As a single package, 854 Series will exhibit very good gloss and color retention, as well as corrosion protection. These qualities will be greatly enhanced when 854A100 Urethane Modifier is added.

<b>Vehicle Type:</b>	Modified Silicone Alkyd	<b>Dry-Time:</b>	<b>Normal Application</b>	<b>With Modification</b>
<b>Pigmentation:</b>	Lead Free	<b>To Touch</b>	30 minutes	10-15 minutes
<b>Reducers for:</b>	Not normally required	<b>Recoat</b>	6-8 hours	30 minutes
<b>In summer if desired:</b>	Highland #64	<b>Tack Free</b>	3 hours	5-10 minutes
<b>In winter if desired:</b>	Highland #52	<b>To Handle</b>	6-8 hours	2-3 hours
<b>Mixing Ratio:</b>	Single Package	<b>Put in Service</b>	12 hours	12 hours
<b>For Enhanced Durability:</b>	Add 1 quart (4:1) 854A100 per gallon	<b>V.O.C.:</b>	340 grams/liter	354 grams/liter
<b>Pot Life:</b>	3-4 hours @ 77°F (when 854A100 is added)	<b>Shelf Life:</b>	1 year minimum	
<b>Volume Solids:</b>	60%	<b>Finish:</b>	High Gloss	
<b>Theoretical Coverage:</b>	960 Sq. Ft. per Gallon @ 1 mil DFT	<b>Color:</b>	Selected Range	
<b>Flash Point:</b>	81°F Lowest Flashing Component	<b>Weight:</b>	12 lbs. per gallon	
<b>Recommended DFT:</b>	4-6 mils			

**Preparation:**

1) Minimum surface preparation should be in accordance with SSPC-SP6 Commercial Blast cleaning. When blast cleaning is not an option, SSPC-SP3 Powertool or SSPC-SP2 Wire Brushing is acceptable and provides good results. Also, water jetting in accordance with SSPC-SP12 is acceptable. Surfaces should be dry and free of contaminants.

**Application Requirements:** (1) Stir product thoroughly prior to use. (2) Apply at a rate of 160-240 square feet per gallon to obtain the recommended film thickness.

**Special Notes:** 854 Series is a single component product, however, you may add #854A100 Hardener at 1 quart per gallon. Pot life is then 3-4 Hours at 77°F with considerably shorter pot life at higher temperatures.

*\*To enhance gloss, durability & hardness of this coating add one quart (4:1) of #854A100 per gallon.*

**Method of Application:** Conventional or Airless

**Conventional Spray**

**Airless Spray:**

<b>Gun:</b>	DeVilbiss MBC-510	<b>Gun:</b>	Graco 205-591
<b>Fluid Tip:</b>	E	<b>Pump:</b>	30:1
<b>Air Cap:</b>	704	<b>Tip Range:</b>	3.011 - 4.015 @ 1800 psi minimum
<b>Atomizing Pressure:</b>	60 psi	<b>Hose:</b>	3/8 inch ID
<b>Pot Pressure:</b>	15-20 psi		
<b>Hose:</b>	1/2 inch ID		
<b>Brush or Roller:</b>	Both are Acceptable		
<b>Clean Up:</b>	After use, clean all equipment with lacquer thinner		

**Safety Precautions:** (a) Use normal precautions such as gloves, facemasks, and barrier creams.

(b) Adequate ventilation must be maintained. In confined areas, workmen must wear constant flow airline respirators. (c) If product comes into contact with skin, wash thoroughly with lukewarm water or diluted Boric Acid, and obtain immediate medical attention. (d) This product contains

**FLAMMABLE** materials. Keep away from sparks and open flames. Observe **NO SMOKING** regulations.

(e) All electrical equipment and installations should conform to NEC regulations. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools, and to wear conductive, non sparking shoes. (f) Observe low flash regulations. (g) Refer to Material Safety Data Sheet (MSDS) for complete safety instructions.

The technical data listed herein has been compiled for your convenience and guidelines, and is based upon our experience and knowledge. However, since we have no control over the use of this information, or this product, no warranty, express or implied, is intended or given. Highland assumes no responsibility whatsoever for coverage, performance, or any other damage, including injuries from use of this information of products recommended herein.

P. O. Box 3564 Boone, NC 28607

800-444-1438

www.highland-international.com