



Armadillo Liners
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Product Data Sheet

Aliphatic ClearCoat

**USGBC LEED, EQ Credit 4:
 Low – emitting VOC Compliant Materials**

Product Description- *Armadillo Liners Aliphatic ClearCoat* is a 100% solids, color stable polyaspartic polyurea coating. **Aliphatic ClearCoat** may be applied directly to most substrates, and where adhesion is critical a primer may be used. **ClearCoat** may be used as a topcoat for existing epoxy, polyurethane, polyurea and other coating systems. This coating is extremely color stable and displays excellent UV weathering characteristics. **ClearCoat** can be applied in temperatures over 0° F. When fully cured, **ClearCoat** will produce a highly abrasion resistant, high-gloss, smooth finish. **ClearCoat** may be applied in all positions to any suitably prepared substrate.

Uses- **Aliphatic ClearCoat** adheres well to most substrates including concrete, steel, and plastic. The high tensile strength of the coating allows this product to better withstand the abuse of industrial equipment, steel-wheeled carts, and forklifts with minimal cracking and peeling. The excellent chemical resistance is well suited for some harsh applications.

Ideal for Applications In-

- Any exterior use requiring color stability
- Automobile Dealership Floors
- Aircraft Hangers
- In line bed liner coatings

Advantages-

- Fast Cure
- **100% Solids, No VOC's**
- Moisture Tolerant
- High Tensile Strength
- Color Stable
- Adheres well to Most Substrates
- Low Odor
- Excellent UV Stability
- Cures from 0° F to 200° F
- High Gloss Finish
- USDA and FSIS Acceptable
- Adds New Life to Epoxy Floors

Physical Properties-

Cured Film Properties	Test Method	Typical Value
Solids Content		100%
Shore Hardness	ASTM D2240	78D
Elongation	ASTM D638	15%
Tensile Strength, psi	ASTM D638	3850
Tear Strength, pli, Die C	ASTM D624	625
Taber abrasion, mg. Loss, CS-17	ASTM D4060	66.8
Gloss, 60° spec.	ASTM D523	90+
Impact, direct, reverse	ASTM D2794	60,10
Working Time (77° F, RH 54%)		15-20 minutes
Tack Free		35-45 minutes
Return to Use		16-24 hours

Chemical Resistance-

ASTM D3912 - modified 21 day immersion exposure			
The information in this chart is intended only as a guide. This information has been compiled from various sources believed to be reliable. To verify compatibility or suitability of this product in specific applications, the product should be tested under the specific service conditions. The ratings are for resistance at 77° F unless otherwise noted. Recommended Conditional means there will be some effect: swelling, discoloration, cracking. Wash down within one hour of spillage to avoid effects.			
Recommended	R		
Recommended/Conditional	RC		
Not Recommended	NR		
Test Media:	Result:	Test Media:	Result:
Acetic Acid, 100%	NR	Motor Oil	R
Acetone	RC	MTBE	RC
Ammonium Hydroxide, 20%	R	MTBE (5%)/gasoline	RC
Antifreeze/Water	RC	Muriatic Acid (10% HCL)	R
Brake Fluid (DOT 3)	RC	NaCl (10%)/water	R
Clorox 10%/water	RC	Phosphoric Acid (10%)	R
Diesel Fuel	R	Potassium Hydroxide (10%)	R
Gasoline	R	Skydrol	RC
Hydrochloric Acid (10%)	RC	Sodium Hydroxide (50%)	R
Hydrofluoric Acid (10%)	RC	Sodium Bicarbonate	R
Hydraulic Fluid	RC	Sugar/Water	R
Isopropyl Alcohol	R	Sulfuric Acid (10%)	R
Lactic Acid	R	Sulfuric Acid (50%)	RC
MEK	RC	Toluene	R
Methanol	RC	Vinegar (5%)/water	R
		Water (180° F)	R

Limitations- Requires dry substrate. Consult *Armadillo Liners*.

Coverage Rates-

Theoretical Square Feet Per Gallon

Mils	10	15	50	60	80	100	125
	160	107	32	27	20	16	13

Note: 1604 mil inches per gallon. Totally dependent on substrate texture and condition.

Packaging-

- **3 Quart Kit:** One quart of 'A' side and 2 quarts of 'B' side.
- Larger Kits Available, Consult *Armadillo Liners*
- **Aliphatic ClearCoat** is packaged in 3 qt. kits or 1gallon pails.- Containers filled by weight, volume is closely approximate.

Mixing- This product mixes at 2 parts of B to 1 Part of A. If pigmenting, add 12oz of pigment to the B side, unless you're using white or yellow you will double the volume. At your option, add 5 to10% by volume; of Acetone, and stir in with paint stir stick or other appropriate mixing rod. Stir; do not whip, as you will create air bubbles. You may mix partial kits as long as proportions of A, B & pigment are maintained at a 2 part B to 1 part A. The pigment should be mixed in at 5%.

Colors- Clear. Custom pigmenting on request. Consult **Armadillo Liners**.

Shelf Life- One year, in original, unopened factory containers, under normal storage conditions of 55°F to 95°F.

Clean Up- Cured product may be disposed of without restriction. Excess liquid 'A' and 'B' material should be mixed together and allowed to cure, then disposed of in the normal manner. Product containers that are "drip free" may be disposed of according to local, state and federal laws.

Safety- Read Material Safety Data Sheets provided with all shipments. Additional copies are available upon request from **Armadillo Liners** or your local dealer.

Basic safety for personal protection is:

- Long-sleeve overalls or disposable Tyvex overalls.
- Rubber gloves.
- Splash shield or safety glasses with splash guards.
- Rubber or leather boots.
- Do not use near high heat or open flame.
- Do not take internally.
- Keep out of the reach of children.

Preparation-

- This product requires a dry substrate.
- Priming is not required when overcoating **FSS 45DC** and **FSS 50DM**. Over coat within 4 hours.
- Concrete substrates should be clean, sound, and dry. Prime concrete less than 30 days old with **PW-1** applied at 300-400 square feet per gallon.
- Metal substrates should have a 3-5 mil blast profile and should be primed with **PW-1** applied at 500 square feet per gallon.

Installation- Aliphatic ClearCoat adheres well to several sound substrates including concrete, steel, and wood. All surfaces should be free of loose particles, rust, voids and spalls. It is recommended that this product be applied in a multi-directional (north-south, east- west) motion to ensure proper coating thickness. Chloride levels should be checked prior to application. **Aliphatic ClearCoat** should be roller or squeegee applied up to 20 mils thickness per coat. There is no thickness limitation **for Aliphatic ClearCoat**; however, **Aliphatic ClearCoat** should be applied in 5–10 mil coats for maximum leveling and air release.

- It is recommended to wipe steel surfaces with acetone or M.E.K. prior to application of **Aliphatic Clear Coat**. This will remove moisture that may have accumulated on the surface after sandblasting.
- An 80% to 100% solids (non-glossy) epoxy, solvent-based isocyanate or water dispersible isocyanate (for concrete only) are acceptable primers for **Aliphatic ClearCoat**. **Note:** Some epoxy primers require the use of MEK as a wipe-down solvent (due to the build-up of active hydrogen or amine blush on the surface) prior to the application of **Aliphatic ClearCoat**.

TOP-COATING:

Aliphatic ClearCoat may be top-coated after it has become tack free. Paint, epoxy, urethane, or polyurea may be used.

REPAIRS & MAINTENANCE:

Simply brushing on **Aliphatic ClearCoat** can make small repairs to cuts in the coating. This material can be brushed on the surface after light scuffing.

Technical Services-Sales and Customer Support (866) 339-6207

Warranty- Armadillo Liners Incorporated will refund the price of or replace, at its election, product it finds to be defective provided the product has been used properly. Except as expressly stated above, the Company makes no warranty of merchantability and no warranty of fitness for any particular purpose, nor does it make any warranty, expressed or implied, of any nature whatsoever with respect to the product or its use. In no event shall the company be liable for delay caused by defects, for loss of use, for indirect, special or consequential damages, or for any charges or expenses of any nature incurred without its written consent.

