



PolyVers International
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Product Data Sheet

Aliphatic ClearCoat

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

Product Description – PolyVers Aliphatic ClearCoat is a 100% solids, color stable aliphatic polyurea coating. **Aliphatic ClearCoat** may be applied directly to most substrates and may be used as a topcoat for existing epoxy, polyurethane, or polyurea. This coating is extremely color stable and displays excellent UV weathering characteristics. **Aliphatic ClearCoat** can be applied in temperatures as low as 20° F. When fully cured, **Aliphatic ClearCoat** will produce a highly abrasion resistant, high-gloss, smooth finish.

Uses - Aliphatic ClearCoat adheres well to most substrates including concrete, steel, wood and plastic. The high tensile strength of the coating is able to withstand the abuse of industrial equipment, steel-wheeled carts, and forklifts. The excellent chemical resistance is well suited for many harsh applications.

Ideal for Applications In -

- Any exterior use requiring color stability
- Automobile Dealership Floors
- Aircraft Hangers

Advantages -

- Fast Cure, 100% Solids, No VOC's
- High Tensile Strength
- Color Stable, Excellent UV Stability
- Adheres well to most substrates
- Low Odor
- Cures as low as 20° F
- High Gloss Finish
- USDA, FSIS and CFIA Approved
- Adds New Life to Epoxy Floors

Physical Properties -

Cured Film Properties	Test Method	Typical Value
Solids Content		100%
Shore Hardness	ASTM D2240	70D
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%)		10-12 minutes
Tack Free		75 -- 90 minutes
Light Traffic		3 hours

Limitations - Requires dry substrate. Consult **PolyVers**.

Packaging -

- **3 Gallon Kit:** One gallon of 'A' side and 2 gallons of 'B' side.
- Larger Kits Available, Consult **PolyVers**.
- **Aliphatic ClearCoat** is packaged in 3 gallon kits or 55 gallon drums. Containers filled by weight. Volume is closely approximated.

Mixing – Aliphatic ClearCoat is prepackaged in separate containers with adequate space in the Part 'B' container to accept the full contents of the Part 'A' container and provided color pigment.

Full Batch Mix: Mix part 'A' with part 'B' with 5 gal. stir stick by hand until thoroughly mixed. If required, 5% acetone by volume may be added to the mixed 'A' & 'B'. If color is desired, add color pigment to the diluted 'A' & 'B' mixture until color is homogeneous. Do not drill mix.

For Partial Batch mixes, please consult Material Processing & Handling Information.

Colors - Clear. Colored pigment packs available on request. Consult **PolyVers**.

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 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 - Review Material Safety Data Sheets at **PolyVers.com**

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
- Respirator
- Do not use near high heat or open flame
- Do not take internally
- Keep out of the reach of children

Surface Preparation -

- Substrates should be clean, dry, and sound.
- Concrete that is less than 30 days old, should be primed with **PV QuickMender** or **PV 20**.
- Metal substrates should have a 3-5 mil blast profile (SP-10).
- Over coat within 4 hours.

Application - Aliphatic ClearCoat adheres well to sound substrates including concrete, steel, wood and plastic. All surfaces should be free of loose particles, rust, voids and spalls. It is recommended that the 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** may be applied up to 10 mils thickness per coat. Second coat shall be applied within 4 hours of initial coat. Please review Material Processing & Handling Information for further details.

- It is recommended to wipe steel surfaces with acetone or denatured alcohol prior to application of **Aliphatic Clear Coat**. This will remove moisture or dust that may have accumulated on the surface after sandblasting. **Aliphatic ClearCoat** may be over coated after it has become tack free.

REPAIRS & MAINTENANCE:

Simply brushing on **Aliphatic ClearCoat** can make small repairs to cuts in the coating. Material can be brushed on the surface after light scuffing or application of **PV TackCoat**.

Technical Services- Sales and Customer Support (913) 321-9000

Warranty – PolyVers international 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.