

AL-1120C CONDUCTIVE WATERBORNE ADHESION PROMOTER

AL-1120C is a unique conductive waterborne adhesion promoter for thermoplastic polyolefin (TPO) and polypropylene (PP) substrates. It is used in flexible automotive exterior trim such as fascia, cladding and body side moldings. These substrates are inherently difficult to paint due to their polarity, low surface energy and amorphous composition. **AL-1120C** is formulated with a chlorinated polyolefin (CPO) as well as conductive resins. These conductive resins provide a continuous conductive surface once the CPO film has coalesced. This enables subsequent paint layers to be applied by conventional electrostatic spray equipment and therefore enhance transfer efficiency. Color-keyed and clear **AL-1120C** is available without the conductive properties for use in polyurethane foams and inks.

PROPERTIES (TYPICAL)

Color	Gray or Black
Viscosity, sec, #2 Fisher	35 ~ 40
Spray Viscosity	As received
Solids, % weight	9.0 ~ 10.0
Solids, % volume	8.0 ~ 9.0
Density, lb/gal (g/L)	8.4 (1,012)
pH	7.0 ~ 9.7
Volatile Organic Compound, lb/gal ASTM D-2369, Method 24, Procedure A	0.0
Dry film thickness, mils (micron)	0.2 ~ 0.4 (5 ~ 10)
Dry film conductivity	
Ransburg, ohms	140 ~ 165
ITW Ransburg, megaohms	0.04 ~ 0.30
Shelf life, months	6

APPLICATION

AL-1120C should be applied without any further dilution. Once applied, force dry for 5-10 minutes at $\geq 180^{\circ}\text{F}$ / 82°C before applying any basecoat or subsequent coatings. In applications where a forced air drying system is not in place, accelerated drying can be achieved through the use of an infrared heat or a dehumidification system. It is recommended that 90% of the water be removed from the primer film before any subsequent coating is applied. Plant conditions, line speed, oven type and part surface temperatures will determine the actual time or heat required to remove 90% of the water. Maximum adhesion levels are obtained after a 5 minute bake at 250°F / 121°C .

Service Primer: When used as a service primer, bake 5 minutes at 250°F part temperature

ADVANTAGES

- ◆ Safe for employees to handle and use
- ◆ Non-hazardous, non-flammable
- ◆ Zero VOC
- ◆ Clean easily with water

AUTOMOTIVE APPROVALS

- ◆ Chrysler Corporation MS-PB40-2 and as a stand alone service primer
- ◆ Ford Motor Company ESB-M6J142-A and as a stand alone service primer
- ◆ General Motors Corporation 9984808

Manufactured under the following U.S. patents, foreign patents pending

5,227,198 5,300,363 5,427,856 5,620,747 5,626,915 5,629,046 5,693,423 5,756,566 5,804,640 5,880,190

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