



GE Betz DC-20017 / DC-20018 Chrome High Coating Acryshield™ Program

- Provides:
 - Enhances adhesion and corrosion performance of paint system
 - Excellent hiding properties
- Can be roll coat or flow squeegee applied
- Applicable for Galvalume™, hot dipped galvanized and electrogalvanized metal
- Operates at low temperature
- No organic solvents
- Paintable with most systems
- Promotes adhesion of polyurethane foams

DESCRIPTION AND USE

DC-20017 / DC-20018 may be used as a primer or a backer to enhance the appearance and corrosion resistance of zinc-coated sheet. It is designed for continuous coating of coil by roll coat or flow-squeegee. Coating appearance is blue/green. GE Betz AccuTrak Plus™ equipment can be used for monitoring and control.

SUMMARY OF OPERATING DATA

Coating Bath Makeup

DC-20017 / DC-20018 are used at a ratio of 4/1 based on weight. Typical premix compositions are:

DC-20017	80%
DC-20018	20%

Note: *The premix may be diluted with DI water.*

Normal Operating Controls

Dry film thickness	.08 to .12 mils
Peak Metal Temperature	450°F
Chrome Coating Weight (AP457)	5-15 mg/ft ²

SURFACE PREPARATION

For most applications, DC-20017 / DC-20018 are applied after production of the galvanized or Galvalume surface. Therefore, cleaning is unnecessary. If cleaning is required, a suitable GE Betz Kleen™ Series product should be used. The metal should then be thoroughly rinsed prior to applying DC-20017 / DC-20018.

DRYING

It is essential the metal strip leaving the chemical applicator be dried by any means that does not contaminate the surface with fumes, oil or partially burnt gases. The metal temperature of the strip leaving the drying section should be at least 280°F. Hot air convection, infrared or induction drying can be used. Any air flow necessary to aid drying should be limited to a maximum velocity of 3000 ft/min. An ultimate PMT of 450°F must be achieved for complete cure.

OPERATIONAL RECOMMENDATIONS

1. If the treatment is stopped (e.g., for maintenance) the system should be thoroughly washed and then the rolls solvent wiped (e.g., with MEK).

2. A Portaspec (or similar x-ray fluorescence instrument) should be used for monitoring chrome coating weight.

EQUIPMENT

The equipment for the DC-20017 / DC-20018 coating stage should be constructed of Type 316 stainless steel. Ceramic or chrome plated steel pickup rolls may be used. Rolls (applicator or squeegee) should be covered with neoprene, hypalon or an alternate compatible elastomer. DC-20017 / DC-20018 solutions are compatible with many common plastics, including Teflon, Polysulfone, Kynar and Polyethylene HDCL.

PACKAGING

DC-20017 / DC-20018 are blended as liquids and are supplied in non-returnable drums.

STORAGE

If product freezes, warm and mix thoroughly prior to use. Ideal storage conditions for these products are 40 to 100°F.

MATERIALS

The following chemicals are needed to operate the process and can be obtained from GE Betz:

- DC-20017
- DC-20018

SAFETY PRECAUTIONS AND PROPERTIES

Material Safety Data Sheets containing detailed information relative to these products are available upon request.

METRIC CONVERSION FACTORS

To convert any of the English units in this Product Fact Sheet into their Metric equivalents, use the appropriate conversion factors:

$$\text{gal} \times 3.785 = \text{liters}$$

$$\text{lb} \times 0.454 = \text{kg}$$

$$\text{psi} \times 6.7 = \text{KPa}$$

$$(\text{°F} - 32) \div 1.8 = \text{°C}$$