

PolarKote Application Instructions

Proper application of PolarKote is critical to the performance of the product. In order to achieve maximum reflectivity, a thickness of 20 mil (0.5mm) is required. A slight surface texture is also desirable. Below is one application schedule that works well on aluminum surfaces. On steel, an initial primer layer is recommended to prevent discoloration of the PolarKote material.

Tools and Supplies

- HVLP Spray Gun
- Clean Rags
- Denatured Alcohol
- Deionized or Distilled Water

Overview

In order to achieve optimum adhesion, the product should be applied in thin, uniform layers. The first coat should not hide all of the underlying substrate. If it does, the layers are being applied too thick. A smooth surface such as used in automotive finishes is not the goal here. A slight, uniform, textured look/feel is recommended.

Procedure

1. Clean the surface of all oil, grease, and debris with denatured alcohol and allow it to completely dry before proceeding.
2. Primer is optional on Aluminum, but required for most other surfaces. If using primer, apply it per the manufacturer's instructions. Allow the primer to dry completely before proceeding to PolarKote application.
3. Apply a thin coat of PolarKote using an HVLP spray gun and allow to dry for ~30-60 min. This first coat should not hide the substrate completely. Thin the PolarKote, if required, with deionized or distilled water.
4. Apply additional thin coats of PolarKote, allowing 30-60 minutes between coats for drying. To achieve a dry thickness of 20 mils, at least 8 coats are typically required.
5. Let the finished part dry for 12-24 hours before use.