



# AEROFIN EPOXY PRIMER

**EPOXY PRIMER**

**PRODUCT CODE: 180-line**

**DATA SHEET NO.: 180-1-G**

## SOLUTIONS FOR AFRICA

### DESCRIPTION

- A two component modified epoxy primer.

### USES

- On suitably prepared steel, galvanized steel, aluminium, 3CR12, perspex, fibreglass etc. For any other substrates please confirm with Varcol Technical Services the substrate to be painted
- Provides excellent corrosion protection in both industrial, chemical and coastal environments.

### ADVANTAGES

- Excellent adhesion, corrosion and chemical resistance
- Resistant to water, organic solvents, oils, battery acid, hydraulic fluid, fuels and greases.
- Complies to defense force standards RSA-MIL-SPEC 42 – ISSUE 5

### TECHNICAL DATA

- Colour Beige [180-0039], Grey [180#0045], Light Green [180#0044], Black [180-0049], White [180-0043 – only to be used on Perspex and other composites] and a limited range of colours on special request.
- Mix Ratio 4 parts base : 1 part curing agent [740-0043] by volume
- Volume Solids 31% ± 2
- Film Thickness 35-45µm DFT.
- Drying Time
 

Surface Dry:	30 minutes @ 23°C
Hard Dry:	4 hours @ 23°C
Full cure:	7 days
Overcoating:	2 hours minimum, 48 hours maximum

If force drying is needed, heat in oven @ 60-65°C for minimum 20 minutes to maximum 2 hours. Cool down naturally to 23°C before overcoating.
- Theoretical Spreading Rate 9.4m<sup>2</sup>/l at 35µm DFT
- Practical Spreading Rate Allow appropriate loss factor
- Pot Life 8 hours @ 23°C - higher temperature will reduce pot life.
- Storage In dry shaded conditions away from sources of heat and ignition.
- Shelf Life If stored correctly in original unopened tins. Base: 12 months. Curing Agent [CA]: 6 months.

### SURFACE PREPARATION:

- The performance of this coating will depend on the degree of surface preparation.
- Surfaces must be clean dry and free from all grease and other contaminants.
- Degrease with **TAKE OFF CLEANER [940-0002]**, a water-soluble degreasing solution. Rinse with clean water. Repeat cleaning until a water break free surface is obtained.
- **STEEL:** Abrasive blast clean to grade Sa 2½ of the International Standard ISO 8501-1:1988 with a blast profile of 50 microns. If oxidation of the steel occurs before application, the area must be re-blasted to the specified standard. Alternatively, prepare the steel by power tool cleaning to St 3 of the above standard. This method of preparation will result in a shorter maintenance free life.
- **GALVANIZED STEEL:** Clean with **TAKE OFF CLEANER [940-0002]**, a water-soluble degreasing solution. Rinse with clean water. Repeat cleaning until a water break free surface is obtained.
- **ALUMINIUM AND CHROMADECK:** The surface should be clean, dry, and free from oil, grease or any contaminants. Degrease thoroughly using a suitable water soluble detergent (**TAKE OFF CLEANER [940-0002]**) followed by rinsing with clean, fresh water to remove all traces of detergent. Use a "Scotchbrite" pad to clean, abrading the surface slightly to remove the oxide layer.
- **3CR12:** (There are three types of 3CR12)
  1. **Hot rolled type** which appears black and contains a fine layer of millscale which must be degreased using a water soluble detergent, (**TAKE OFF CLEANER [940-0002]**) and rinsed with clean water. Repeat cleaning until a water break free surface is obtained. Abrasive blast clean using platinum slag to grade Sa2½ of the International Standard ISO 8501-1:1988. Allow to dry.
  2. **Pickled type** which appears to have a satin finish and **Cold rolled type** which has a very smooth surface and polished appearance. Degrease with a water soluble detergent, (**TAKE OFF CLEANER [940-0002]**) and rinse with clean water. Repeat cleaning until a water break free surface is obtained.
- **PERSPEX, FIBREGLASS AND OTHER COMPOSITES:** Degrease with **TAKE OFF CLEANER [940-0002]**, a water-soluble degreasing solution. Rinse with clean water. Repeat cleaning until a water break free surface is obtained.

# AEROFIN EPOXY PRIMER

EPOXY PRIMER

PRODUCT CODE: 180-LINE

DATA SHEET NO.: 180-1-G

## APPLICATION

- Material is supplied in two containers. Mix each container separately and then combine and mix well. After combining the products thin if required.
- Conventional Spray: Recommended  
Nozzle Orifice: 1,4-1.8 mm  
Spray Pressure: 2,5-3,0 bar  
If necessary thin up to 5% maximum
- Airless Spray: Recommended  
Nozzle Orifice: 17-20 Thou  
Spray Pressure: 2,5-3,5 bar  
No thinning required.
- Brush or Roller Suitable  
If necessary thin up to 5% maximum
- If applied by brush several coats will be required to obtain the desired film thickness.
- Drying times will depend on the applied film thickness and prevailing ambient conditions.
- Surface temperature must always be 3°C above dewpo int.
- Thinner: Epoxy Spray Thinner (100-0004)
- Cleaner: Epoxy Spray Thinner (100-0004)
- Clean all equipment immediately after use. Empty containers and surplus paint should be disposed of in accordance with approved regional regulations.

## LIMITATIONS

- This product is not designed for continuous immersion
- Do not expose to rain, water or dew immediately after application.
- Cannot be applied over flexible coatings e.g. Vinyl's.
- Level of sheen and surface appearance is dependent on the method of application.
- Over-application of the product will extend curing and handling times and may result in gassing.

## SAFETY PRECAUTIONS

- Product contains flammable materials, keep away from sparks and open flames.
- Refer to the MATERIAL SAFETY DATA SHEET (MSDS).

## Disclaimer

The information contained herein is to the best of our knowledge correct and accurate are meant to guide the specifier or user. Any recommendations or suggestions, which may be made, are without guarantee, since we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage arising out of the use of the product.

Not all products referred to in these Data Sheets are stock items and are manufactured only on receipt of official customer orders. Thus, where time is of the essence, please check availability and manufacturing lead times with us.

## VALIDITY DATE:

Paint Technology is continually being improved and developed. It is the user's responsibility to check that this sheet is current prior to using the product. We cannot accept ANY responsibility where this precaution has not been taken.

ISSUE DATE: 30-09-2014

## DEVCOAT (PTY) LTD T/A VARCOL PAINTS:

8 MARCONI NOOK, HENNOSPARK EXT 15  
P O BOX 8210, CENTURION, 0046  
TEL: +27 12 653-0095 FAX: +27 12 653-0926  
E-MAIL: devcoat @ netactive.co.za

**SABS**  
ISO 9001