



# Product Finishes

CC-M26

## ENVIROLASTIC® MIL-170

### 100% Solids Polyurea Hybrid Coating System

Black ..... F92B800  
Light Gray (Interior, Part A) . F92A801

Green 383, 34094.....F92G803  
Catalyst (Part B).....F93V802

Tan 686A, 33446..... F92H804

#### DESCRIPTION

**ENVIROLASTIC® MIL-170** is a 100% solids, zero VOC\*, spray applied, aromatic polyurea hybrid coating system, which exhibits extraordinary toughness and elastomeric performance characteristics. It can be applied at thicknesses of 30-125 mils (750-3125 microns) in multiple passes during a single application.

#### Advantages:

- Fast cure - short down time
- No VOCs
- Seamless, flexible and waterproof
- Impact, tear and abrasion resistant
- Bridges moving cracks to 1/16"
- Retains physical properties at -20°F (-29°C) to 250°F (121°C)
- Low odor
- Free of lead hazards as packaged in compliance with Consumer Product Safety Commission's (CPSC) 16 CFR Chapter II: Subchapter B, part 1303.
- Available in colors

An Environmental Data Sheet is available from your local Sherwin-Williams facility or at [www.paintdocs.com](http://www.paintdocs.com)

\*VOC compliance limits vary from state to state; please consult local Air Quality rules and regulations

**Testing:** The information, data, and recommendations set forth in this Product Data Sheet are based upon test results believed to be reliable. However, due to the wide variety of substrates, substrate properties, surface preparation methods, equipment and tools, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.

#### CHARACTERISTICS

**Finish:** Semi-Gloss  
**Volume Solids:** 100 %  
**Viscosity(mixed):** 550-750 cps  
**Recommended film thickness:**  
Mils Wet 30 - 125  
Mils Dry 30 - 125  
**Mixing Ratio:** 1 : 1  
**Mixing Instructions:** Agitate resin blend (Part A) component thoroughly with a drum mixer before use to disperse pigment and assure homogeneity. Do not thin. Do not mix "A" and "B" parts together as they are to be used only with heated, plural component equipment. **Caution: Do not agitate in air and moisture.**

Apply paint at the recommended film thickness and spreading rate as indicated below:

**Spreading Rate** (no application loss)  
13-53 sq ft/gal @ 30-125 mils DFT

**Drying Time** (30 mils dft, 73°F, 50% RH) is dependent on temperature, humidity and film thickness.

To Touch: 20 seconds  
To Recoat: after 20 seconds  
before 16 hours

Gel Time: 10 seconds  
Tack Free: 20 seconds  
Foot Traffic: 2 hours  
To Cure: 24 hours

If maximum recoat time is exceeded, abrade surface before recoating.

**Flash Point:** 200°F  
**Pot Life:** None  
**Sweat-In Time:** None  
**Package Life:** 1 year, unopened, inside storage 70 °F to 90°F

**Air Quality Data:**  
Photochemically reactive  
Volatile Organic Compounds (VOC)  
as packaged, maximum  
0.0 lb/gal, 0.0 g/L

#### SPECIFICATIONS

##### Iron & Steel (atmospheric service)

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

##### Iron & Steel (immersion service)

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (3 mils / 75 microns). Remove all weld spatter and round all sharp edges. Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

##### Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI 03732, CSP 3-5. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910. Primer required.

##### Always follow the standard methods listed below:

ASTM D4258 Standard Practice for Cleaning Concrete.  
ASTM D4259 Standard Practice for Abrading Concrete.  
ASTM D4260 Standard Practice for Etching Concrete.  
ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.  
SSPC-SP 13/Nace 6 Surface Preparation of Concrete.  
ICRI 03732 Concrete Surface Preparation.

## **SPECIFICATIONS**

### Typical Setups

#### **Performance Tips**

For concrete, always perform Calcium Chloride test as per ASTM F1869. Do not proceed with MVE >3 lbs.

Where primers are used, do not fill the profile on concrete or steel with excess primer. Topcoat epoxy primers immediately after they become tack free. "Tack free" is defined as slight to medium pressure with a gloved hand, placed on a primed surface, that when lifted shows a slight imprint or distortion to the surface, with no transfer of primer to the glove.

For immersion applications, a minimum total dry film thickness of 40 mils (1000 microns) on steel and 60 mils (1500 microns) on concrete is required.

#### **For Immersion Service:** (if required)

Holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete.

For steel, stripe coat all chine, welds, bolted connections, and sharp angles to prevent early failure in these areas. For concrete, all cracks must receive a 6" wide by 30 mil (750 micron) dft detail coat.

Use only heated, plural component equipment capable of producing 2,500 psi at 160°F (71°C) and 2 gallon (7.56L)/minute output consistently.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Butyl Cellusolve™ (R6K25) or Dowanol PM™.

While spraying, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, over thinning, climatic conditions, and excessive film build.

Completed film will yellow on exposure to Ultraviolet Light (UV)

**Do not agitate in air and moisture.**

## **APPLICATION**

### Typical Setups

#### **Application Conditions**

Material:150°F (66°C) minimum, 170°F .....(77°C) maximum  
Air and surface:-20°F (-29°C) minimum, 120°F, (49°C) maximum  
At least 5°F (2.8°C) above dew point  
Relative humidity:..... 80% maximum

#### **Application Equipment**

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

#### **Plural Component Heated Spray Equipment:**

EquipmentGraco Reactor EXP2 or HXP3  
Gun ..... GX7 DI,GX7-400, or GX-8  
Fluid Pressure @ Gun ..... 2200 psi  
Air Pressure ..... 100 psi  
A Side Temperature.....150 - 170F  
B Side Temperature.....150 - 170f  
Inlet Strainer Screen ..... 30 mesh  
Gun Screen..... 80 mesh

If specific application equipment is not listed above, equivalent equipment may be substituted.

**Clean-up:** Clean spills and spatters immediately with Butyl Cellusolve™ (R6K25), or Dowanol PM™. Clean tools and equipment immediately after use (including both A & B sides of plural component spray system) with Butyl Cellusolve™ (R6K25) or Dowanol PM™.

Follow manufacturer's safety recommendations when using any solvent.

## **CAUTIONS**

### **FOR INDUSTRIAL SHOP APPLICATION ONLY**

**Thoroughly review product label and Safety Data Sheet (SDS) for safety information and cautions prior to using this product.**

To obtain the most current version of the Environmental Data Sheet (EDS), Product Data Sheet (PDS), or Safety Data Sheet (SDS) please visit your local Sherwin-Williams facility or [www.paintdocs.com](http://www.paintdocs.com).

Please direct any questions or comments to your local Sherwin-Williams facility

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