

SC-1090 Water-Borne Preservation Topcoat

TECHNICAL DATA SHEET

Product Description

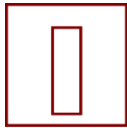
SC-1090 is a preservation topcoat designed to be used in conjunction with SC-1074A-2, SC-1074B-1 or SC-1074B-2 peelable preservation basecoats for protection of plastic, metal, porcelain and painted surfaces during in-plant fabrication, operation, shipping and storage. SC-1090 serves two purposes in the peelable preservation system. It waterproofs the preservation basecoat, and since it forms an opaque white film, it provides both light and heat reflection to the system. SC-1090 increases the weatherability of the peelable preservation basecoat.

SC-1090 can be applied over the preservation basecoat before it is fully dry. Therefore, it permits a very short application cycle. SC-1090 has the ability to dry rapidly to a rain resistant coating while at the same time allowing the SC-1074A-2, SC-1074B-1 or SC-1074B-2 to continue drying beneath it.

Pinholes or breaks can be patched using SC-247-2 brushable touch-up preservation topcoat.

- Water-base

Components



Mix ratio (by volume):

- SC-1090

Single component, ready to use coating

Specifications



SC-1090 meets the following specification:

- MIL-PRF-6799 Type II Class 5

Note: PPG Aerospace recommends you check the most recent specification QPLs for updated information.

Surface Preparation and Pretreatments



Apply to oil and dirt free surfaces.

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Instructions for Use

**Mixing Instructions:**

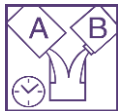
SC-1090 is a single component coating; no mixing required.

**Induction Time:**

Not Required

**Viscosity:** (23°C/73°F)

2,000 - 6,000 cps

**Pot Life:**

Not Applicable

Application Guidelines

Recommended Application Conditions:

Temperature	15 – 30°C (59 – 86°F)
Relative Humidity	20 – 90%

Application:

SC-1090 should be applied in two separate coats using air or airless equipment. The equipment recommended is Graco President or Bulldog Model pump with 205-591 Gun and standard tip with orifice of between .011 and .021 and angle between 40° and 60°. (Tip #163-617 recommended.)

The first coat should be a dry coat applied with a wide fan and the gun held about 18" from the surface. This discontinuous dry coat should barely cover the preservation basecoat (SC-1074B-1, SC-1074B-2 or SC1074-A2) and will minimize bubbles in the film. The second coat should be a normal spray application to build to the required 3 mils of dry film.



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Special Instructions:

The preservation basecoat (SC-1074B-1, SC-1074B-2 or SC1074-A2) and SC-1090 preservation topcoat, will reach full dryness together. Under conditions of 50% relative humidity and 21°C (70°F), about two hours drying time provides a rain resistant coating. In direct sunlight or with high air circulation and warm temperatures, the drying time is even less. Under conditions of high relative humidity, the time required for the topcoat to dry is, of course, longer. Items may be dried outdoors as long as there is no direct rain on the preserved item and temperatures are above 10°C (50°F).

These application guidelines represent PPG's best advice for usage in standard conditions. Some parameters will be influenced by environmental conditions, equipment settings, and other variables.



Theoretical Coverage:

56 square meters/liter at 25 microns dry film (600 square feet/gallon at 1 mil dry film)

Recommended dry film thickness; 75 microns (3 mils)



Equipment:

SC-1090 is compatible with most forms of spray equipment. See application section for more details.

Equipment Cleaning:

Flush spray equipment ONLY with water.

Physical Properties (product)



Color: White



Gloss: Not Applicable

Percent Solids: 48 ± 1%

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Dry Times at 22 - 28°C (71 - 84°F) 50%RH

Dry through	2 hours
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VOC

VOC (EPA method 24):

SC-1090	<264 grams/liter
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Physical Constants:

Weight/gallon	9.3 ± 0.2 pounds/gallon
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Flash point closed cup:

SC-1090	<42°C (107°F)
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Shelf Life:

12 months from date of manufacture.

Note: Shelf life is provided for original, unopened containers.

Note: The application and performance property values above are typical for the material, but not intended for use in specifications or for acceptance inspection criteria because of variations in testing methods, conditions and configurations.

Storage Recommendations



Inspect the condition of the container to ensure compliance. The material should be stored at temperatures between 13°C to 32°C (55°F to 90°F) to ensure shelf life. Never allow this product to freeze. Once frozen, application and protective properties are unstable and not warranted.

Note: When procuring to a qualified material specification, follow those storage instructions.



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Health Precautions

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Safety Data Sheet (SDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. An SDS is available on request. Avoid overexposure. Obtain medical care in case of extreme overexposure.

For industrial use only. Keep away from children.

Additional information can be found at: www.ppgaerospace.com

For sales and ordering information call the local PPG office at the numbers listed below:

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