

09BR007 Fluid Resistant Primer/Surfacer

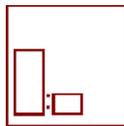
TECHNICAL DATA SHEET

Product Description

09BR007 is a flexible, chrome-free, polyurethane primer/surfacer designed for filling pinholes, voids and other surface irregularities. May be wet or dry sanded to provide a smooth finish, ready for primer or topcoat.

- Chrome-free
- High Solids
- Chemical and solvent resistant
- Resistant to immersion in phosphate ester based hydraulic fluids and distilled water
- Requires a corrosion resistant primer when used on aluminum surfaces

Components



Mix ratio (by volume):

- | | |
|-----------------------------------|---------|
| • 09BR007 (base component) | 3 parts |
| • 09BR007CAT (catalyst component) | 1 part |

Specifications



09BR007 is listed on the following process documents:

• BAC 5681	
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Note: PPG Aerospace recommends you check the most recent specification QPLs for updated information.

Product Compatibility:

09BR007 is compatible with the following primer specifications:

• BMS 10-72	• BMS 10-79
• BMS 10-103	

09BR007 primer is compatible with the following topcoat specifications:

• BMS 10-60	• BMS 10-72
• BMS 10-125	• BMS 10-126

09BR007 Fluid Resistant Primer/Surfacer

Surface Preparation and Pretreatments



09BR007 sanding surfacer can be applied over properly cleaned composite or plastic surfaces and primed aluminum.

Instructions for Use



Mixing Instructions:

Standard can kit:

Thoroughly stir or shake the base component (Part A) before combining to ensure all solids are completely dispersed. Add one volume of catalyst component (Part B) to the three parts of base component (Part A). Do not use the catalyst component (Part B) from another color. Mix by hand stirring, paint shaker or mechanical method to ensure the base/catalyst is thoroughly and homogeneously mixed. It is recommended to not vigorously shake or mechanically mix the material for longer than 10 minutes.

Kit Size	09BR007 Base	09BR007CAT	Kit Yield
GK	96 oz. / 2.8 L	32 oz. / 946 ml	128 oz. / 3.785 L
QK	24 oz. / 710 ml	8 oz. / 237 ml	32 oz. / 946 ml

Note: It is important to condition the paint for 24 hours prior to mixing by placing all materials in the shop or hangar, with ambient temperatures between 13° and 35°C (55° to 95°F). The minimum temperature of the paint components should be 13°C (55°F) prior to mixing.



Induction Time:

Not Required



Viscosity: (23°C/73°F)

- #4 Ford cup 15 to 40 seconds

Note: Viscosities quoted are the typical ranges obtained when using specified mix ratio.



Pot Life:

4 hours @ 21 - 25°C (70 - 77°F)

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Application Guidelines

Recommended Application Conditions:

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

Application:

Coating may be applied over properly cleaned composite or plastic surfaces. Apply the primer/surfacer by spraying two coats to a total dry film thickness of 2.0 mils max. Apply the first coat as a light (mist) coat. Allow the coat to set for 15 minutes (depending on airflow, temperature and humidity) before applying the second coat to permit solvent evaporation. Apply the second coat in a full wet coat to achieve the desired film thickness

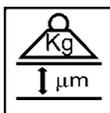
These application guidelines represent PPG's best advice in standard conditions. Some parameters will be influenced by environmental conditions, equipment settings, and other variables.



Theoretical Coverage: (Assuming 100% Transfer Efficiency)

56 square meters/liter at 25 microns dry film (835 square feet/gallon at 1 mil dry film)

Recommended dry film thickness: 50 microns (2.0 mils)



Dry Film Density:

1.58 grams/cubic centimeter (13.18 pounds/gallon)

Dry Film Weight:

3.73 grams/square meter at 25 microns dry film (0.00822 pounds/square feet at 1 mil dry film)



Equipment: 09BR007 primer is compatible with all current forms of spray equipment.

Equipment Type	Tip Size	Pot Pressure	Atomization Pressure at the Cap
Electrostatic Air Spray Gun	1.2 mm or 1.5 mm	10 to 20 psi (0.69 to 1.4 bar)	45 to 60 psi (3.1 to 4.1 bar)
Electrostatic Air Assisted Airless Spray Gun	#611 or #613 (Graco Nomenclature)	700 to 1200 psi (48 to 82 bar)	40 to 60 psi (2.8 to 4.1 bar)
High Volume Low Pressure Spray Gun (HVLV)	1.0 mm to 1.4 mm	10 to 20 psi (0.69 to 1.4 bar)	10 psi maximum (0.69 bar)
Conventional Air Spray Gun	1.2 mm to 1.8 mm	10 to 20 psi (0.69 to 1.4 bar)	45 to 60 psi (3.1 to 4.1 bar)

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Equipment Cleaning:

IS-213 Polyurethane Reducer (MIL-T-81772 Type I) may be used for general clean-up of parts and equipment before coating has fully cured and is still in a liquid state. Once material is fully cured, use an approved chemical paint removal system to strip off coating.

Physical Properties (product)



Color: Brown



Gloss: Not Applicable



Dry Times	21 - 27°C (70 - 80°F)
Tack Free	1 hour maximum
Dry to Sand	3 hours maximum
Dry Hard	1.5 hours maximum
Full Cure	14 days

Note: Dry times above were established at room (ambient) temperatures, 75° ± 10°F and 50% ± 10% relative humidity.

For dry to stack conditions only: Allow a minimum of 30 minutes flash off time at ambient temperatures* prior to exposing painted parts to high temperatures. Complete testing should be done prior to use. Below are suggested starting points. Other variables may affect these cure schedules.

Temperature	Time
49°C (120°F)	45 minutes
60°C (140°F)	30 minutes
71°C (160°F)	20 minutes
82°C (180°F)	15 minutes

Note: Ambient temperatures are defined as 70° ± 10°F and 50% ± 10% relative humidity.

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VOC

VOC:

Mixed, ready to use VOC (EPA method 24)	<420 grams/liter
Base Component	495 grams/liter
Catalyst Component	213 grams/liter



Flash point closed cup:

Base Component	7.7°C (46°F)
Catalyst Component	7.7°C (46°F)

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 21°C to 32°C (70°F to 90°F) to ensure shelf life.

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

09BR007 Fluid Resistant Primer/Surfacers

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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ASC – Australia
Tel 61 (3) 9335 1557
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