

ABC[®] Release 670

Intermediate coat

Product Data/ Application Instructions

- Contains no biocidal compounds
- Easily applied by conventional or airless spray
- Low VOC

ABC[®] Release 670 is a high performance silicone elastomeric coating used as an intermediate coat between Amercoat 246 epoxy tie coat and ABC Release 671 foul release topcoat.

Typical Uses

ABC Release 670 is part of the ABC Release foul release system, a non-toxic, non-polluting coating system recommended for use on harbor facilities, water intake pipes at electric power plants, ship bottoms or wherever prevention of marine or freshwater fouling accumulation is needed.

Typical Systems

1st Coat	2nd Coat	3rd Coat
Amercoat 246*	ABC Release 670	ABC Release 671

*Applied over Amercoat 235 or Amercoat 240.

Surface Preparation

Coating performance, in general, is proportional to the degree of surface preparation. Refer to application instructions for specific primers and tie coats being used for application and curing procedures. **All previous coats must be clean and dry.** Adhere to all minimum and maximum topcoat times when applying ABC Release 670 over Amercoat 246 epoxy tie coat.

Physical Data

Finish	Low sheen	
Color	Gray	
Components	2	
Mixing ratio	4 parts resin to 1 part cure	
Curing mechanism	Solvent release and chemical reaction between components	
Volume solids	63% ± 3%	
VOC	lb/gal	g/L
mixed, calculated	2.7	327
Dry film thickness (per coat)	4-6 mils (100 to 150 microns)	
Coats	1	
Theoretical coverage	ft ² /gal	m ² /L
1 mil	1011	24.8
5 mil	202	5.0
Flash point (SETA)	°F	°C
resin	86	30
cure	82	28
Amercoat 65	81	27
Thinners	Amercoat 65	
Cleaner	Thinner or Amercoat 12	

Application Data

Substrates	Prepared and primed steel, aluminum, or concrete		
Method	Airless or conventional spray only.		
Mixing ratio (by volume)	4 part resin to 1 part cure		
Pot life (hours)		°F/°C	
	90/32	70/21	50/10
	2	8	10
Drying time (hours)		°F/°C	
	90/32	70/21	50/10
touch	1½	3	5
through	3	6	12
Recoat/topcoat times (hours)		°F/°C	
	90/32	70/21	50/10
minimum	4	8	16
maximum (days)			
ABC Release 671	1	2	3
Thinner	Amercoat 65		
Equipment cleaner	Thinner or Amercoat 12		

Application Equipment

The following is a guide; suitable equipment from other manufacturers may be used. Changes in pressure, hose and tip size may be needed for proper spray characteristics.

Important note: This product contains silicone compounds that will be very difficult to clean completely. The use of dedicated application equipment for this type of product is recommended to avoid contamination of other coatings. Overspray should be contained to avoid contamination of adjacent surfaces.

Airless spray – Standard equipment with pump ratio of 45:1 or larger, with a 0.015-to 0.021-inch fluid tip, ½" ID hose with 100ft. maximum length.

Conventional spray – Industrial equipment such as DeVilbiss or Binks with a moisture and oil trap in the main air supply line, a pressure material pot, and separate regulators for air and fluid pressure are recommended.

Power mixer – Jiffy Mixer powered by an air or an explosion-proof electric motor.

Application Procedure

ABC Release 670 consists of two components which must be mixed together before use. It is packaged in the proper portions in 1 or 5-gallon units.

1. Flush equipment with thinner or Amercoat 12 before use.
2. Stir resin component thoroughly, then combine resin and cure and mix until uniform. The viscosity of the mixed material may increase initially, however the product will return to the original viscosity with continued agitation. The mixed material should be covered whenever possible, to avoid skimming of the product in the can.
3. Thin only if necessary for workability, adding Amercoat 65 thinner up to ½ pint (approximately 6%) per gallon of ABC Release 670.
4. Do not mix more material than will be used within pot life. Pot life is shortened by higher temperatures and exposure to moisture.
5. For conventional spray, use adequate air pressure and volume to ensure proper atomization.
6. Apply a wet coat in even, parallel passes; overlap each pass 50 percent. If required, cross-spray at right angles to avoid holidays, bare areas and pinholes.
7. Normal recommended dry film thickness per coat is 4 to 6 mils, which may be achieved by applying 7 to 10 mils coating wet film thickness.
8. Clean all equipment with thinner or Amercoat 12 immediately after use.

Shipping Data

Packaging units	1 gal	5 gal
cure	0.2 gal in 1-qt can	1 gal in 1-gal can
resin	0.8 gal in 1-gal can	4 gal in 5-gal can

Shipping weight (approx.)	lb	kg
1-gal unit		
cure	2.0	0.9
resin	8.5	3.9
5-gal unit		
cure	8.5	3.9
resin	37.0	16.8

Shelf life when stored indoors at 40 to 100°F (4 to 38°C) resin and cure 12 months from manufacture date.

Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of each component. Safety precautions must be strictly followed during storage, handling and use.

CAUTION – Improper use and handling of this product can be hazardous to health and cause fire or explosion.

Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: implementation of proper ventilation, use of proper lamps, wearing of proper protective clothing and masks, tenting and proper separation of application areas. Consult your supervisor. Proper ventilation and protective measures must be provided during application and drying to keep spray mists and vapor concentrations within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces, such as tank interiors and buildings.

This product is to be used by those knowledgeable about proper application methods. PPG makes no recommendation about the types of safety measures that may need to be adopted because these depend on application environment and space, of which PPG is unaware and over which it has no control.

If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product.

Note: Consult Code of Federal Regulations Title 29, Labor, parts 1910 and 1915 concerning occupational safety and health standards and regulations, as well as any other applicable federal, state and local regulations on safe practices in coating operations.

This product is for industrial use only. Not for residential use.



PPG Protective & Marine Coatings
www.pppmc.com

One PPG Place, Pittsburgh, PA 15272 • Tel: (800) 441-9695