MC-3030

Maintenance Coating Systems — *Gloss aliphatic acrylic polyurethane topcoat*

Product Data/ Application Instructions

- Gloss topcoat with unlimited recoatability
- Outstanding weather resistance with excellent color and gloss retention
- Low VOC
- Resistant to a broad range of corrosive atmospheres
- Resists soil pickup – cleans easily
- Cures through wide temperature range
- Hard, flexible and abrasion resistant

Typical Uses

MC-3030 can be used as a finish coat where attractive appearance and a wide range of corrosive resistance are required.

•Chemical plants
•Pulp and paper mills
•Off shore platforms
•Petroleum refineries and containers.
•General industrial and marine applications

Typical Systems

1st Coat	2nd Coat	3rd Coat
MC-3000/3010	MC-3030	—
MC-3000/3010	MC-3000/3010	MC-3030

Physical Data

Finish	Gloss		
Color*	See color card		
Components	2		
Mixing ratio (by volume)	4 parts resin to 1 part cure		
Curing mechanism	Solvent release and chemical reaction between components		
Volume Solids	67% ± 3%		
VOC (EPA Method 24)		lb/gal	g/L
unthinned		2.6	311
thinned (5% by volume)		2.8	340
Dry film thickness (per coat)	2-3 mils (50-75 microns)		
Coats	1 or 2		
Theoretical coverage			
		ft2/gal	m2/L
1 mil		1074	26.4
2 mils		537	13.2
Temperature resistance, dry			˚F/˚C
		˚F	˚C
continuous		200	93
intermittent		250	121
Flash Point		°F	°C
cure		92	-33
resin		97	-36
Blome Thinner #2		81	27
Blome Thinner #3		2	-17
Blome Thinner #4		145	-63
Thinners	Blome Thinner #2 & Blome Thinner #4		
Cleaner	Blome Thinner #3		

**Certain colors (especially yellow, red and orange) may require additional coats to achieve adequate hiding, particularly when applied over dark or contrasting primer color. Color variance with rapid response tinted colors may be greater than with standard production batches. If color is critical, change batches at natural breaks in structure or intermix batches for consistency.*
Yellow, red and orange colors will fade faster than other colors due to the replacement of lead-based pigments with lead-free pigments in these colors.

Chemical Resistance Guide

When applied over suitable primer or intermediate coat:

Environment	Splash and Spillage	Fumes and Weather
Acidic	VG	E
Alkaline	VG	E
Solvents	G	E
Salt solutions		
Acidic	E	E
Neutral	E	E
Alkaline	E	E
Water	E	E

G-Good VG-Very Good E-Excellent

This table is only a guide. For specific recommendations, contact your Blome representative for your particular corrosion protection needs. MC-3030 is not recommended for immersion service.

Surface Preparation

Coating performance, in general, is proportional to the degree of surface preparation. Refer to application instructions for specific primers and intermediate coats being used for application and curing procedures. All previous coats must be clean and dry. Adhere to all minimum and maximum topcoat times for specific primers and intermediate coats. Aged epoxy coatings must be roughened before applying MC-3030.

Application Data

Substrates	Prepared and primed steel, concrete, aluminum, galvanizing, or aged coatings.
Surface preparation:	Refer to Product Data Sheet/ Application Instructions of specific primer or intermediate coat being used.
Method	Airless or conventional spray, roller, brush (touch-up only)
Mixing ratio (by volume)	4 parts resin to 1 part cure

Environmental conditions	˚F	˚C
air and surface temp	20 to 120	-7 to 49

Surface temperatures must be at least 5˚F (3˚C) above dew point to prevent condensation.

Pot life (hours)

	F˚/C˚		
90/32	70/21	50/10	
2	4	6	

Dry times	F˚/C˚		
	90/32	70/21	50/10
touch (minutes)	10	30	90
through (hours)	4	8	24

Recoat times		F˚/C˚	
90/32	70/21		50/10
minimum (hours)	2	4	12
maximum	Unlimited*		

*Surface must be dry and free of all contaminants.

(Blome accelerator)	90/32	70/21	50/10	32/0
touch (minutes) @1⁄2 pt per mixed 5-gal unit	7	25	75	240
through @1⁄2 pt per mixed 5-gal unit	13⁄4	21⁄2	8	36

Recoat times		F˚/C˚		
(w/Blome accelerator)	90/32	70/21	50/10	32/0
minimum (hours)	1	11⁄2	4	16
maximum		Unlimited*		

*Surface must be dry and free of all contaminants.

Thinner	Blome Thinner #2, Blome Thinner #4
Equipment cleaner	Blome Thinner #3

Application Equipment

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

Airless spray—Standard equipment such as Graco, DeVilbiss, Binks, Speeflo, or others having a 28:1 or higher pump ratio and a fluid tip with 0.013- to 0.015-inch (0.33- to 0.38-mm) orifice.

Conventional spray—Industrial equipment such as DeVilbiss MBC or Binks BBR spray gun. Separate air and fluid pressure regulators, and a moisture and oil trap in main air supply line are recommended.

Brush or roller - Natural bristle brush or solvent-resistant roller with 1⁄4-inch to 3⁄8-inch nap. For best appearance when rolling, level any air bubbles with bristle brush.

Application Procedure

MC-3030 is packaged in two components in the proper proportions which must be mixed together before use:

1. Flush equipment with Blome Thinner #3 before use.
2. Stir each component thoroughly, then add cure to resin and mix until uniformly blended to a workable consistency. Do not mix more material than will be used within 4 hours at 65-80°F (18-27°C). Pot life is shortened by higher temperatures. See pot life data.
3. Thin only if necessary for workability.
4. When applying by conventional spray, use adequate air pressure and volume to ensure proper atomization.
5. Apply a wet coat in even parallel passes; overlap 50 percent to avoid holidays, bare areas and pinholes. If required, cross spray at right angles.
6. Application of 3 mils (75 microns) wet film thickness will normally provide 2 mils (50 microns) dry film.
7. Clean all equipment with Blome Thinner #3 immediately after use.

Keep containers tightly closed since repeated exposure to moisture will cause gelation. Moisture contaminated material is also subject to gassing on storage. Handle bulged containers with caution; lids may eject forcibly.

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	10.9
resin	10.2	14.6
5-gal unit		
cure1	09	224.1
resin	49	22

Shelf life when stored indoors at 40 to 100˚F (4 to 38˚C)
resin and cure: 1 year from shipment 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. Blome 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 Blome 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.

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