

High Tensile Acrylic



Elastomeric Roof Coating

For Professional Use Only

DESCRIPTION

- Highest performance, plasticizer free, single component, water-based, 100% acrylic elastomeric coating for spray brush or roller application.
- Industry leading tensile and elongation properties contribute to an extremely durable and long-lasting membrane with exceptional resistance to weathering.
- Formulated utilizing special pigments and biocides to provide maximum UV resistance along with a polymer technology that sets the standard for roof coating resistance to discoloration from dirt accumulation.
- Has excellent adhesion to most surfaces including metal, most single-ply roofs, wood and concrete.
- Has the unique ability to "breathe", providing a completely watertight membrane while allowing trapped moisture to escape.

RECOMMENDED USES

CO-24 HT is designed as a protective membrane for most roofing surfaces including galvanized metal, concrete, PVC, Hypalon, EPDM, polyurethane foam and primed smooth and granulated asphaltic surfaces. Check with your MB representative for primer recommendations.

Property	Test Method	Result
Volume solids	ASTM D-1653	55.0 +2%
Weight Solids	ASTM D-1644	66.0 +2%
Tensile Strength	ASTM D-2370	500 +50 PSI
Elongation	ASTM D-2370	600 +50%
Permeability	ASTM D-1653	14 +3
Tear Resistance	ASTM D-624	133 +3 PSI
VOC	EPA Method 24	< 50 g Liter
Low temperature Flexibility (-15', 1/2 in mandrel, 1000hrs weathering)		Pass
Hardness (Shore A)	ASTM D-2240	50 - 55
Reflectivity	ASTM C-1549	87%
Emittance	ASTM C-1371	.90
SRI	Calculated	107
Viscosity		110 + 10 KU
Density		11.1 lbs per gallon
Flashpoint		None
Shelf Life (When stored between 40°F and 70°F (4°C - 21°C).		24 months (Unopened)
Clean Up		Water

*Meets ASTM D6083 requirements. UL Class A fire rated. California Energy Commission Title 24 qualified.
Meets California SCAQMD requirements for VOCs. Miami Dade approved.*

COLORS

Standard Colors: White, Gray and Tan
Custom Colors are available for an additional charge.

PACKAGING/SHIPPING INFORMATION

CONTAINER SIZE	SHIPPING CLASS
55 Gallon drum (208.2 liters)	Class 55
5 Gallon pail (18.9 liters)	Class 55

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SURFACE PREPARATION

General: Surfaces to be coated should be dry, free of dust, dirt, oil, loose granules, gravel, peeling coating and other foreign matter. All wet insulation or foam should be removed and replaced with like materials.

For optimal results power wash all surfaces with a minimum of 2000 psi using a wide fan tip. All necessary precautions should be taken to avoid damage to the roof system. Mildew should be treated with a bleach solution (1 part bleach, 2 parts water) and rinsed thoroughly. Patch and repair cracks or holes with appropriate sealants or caulking materials.

Masonry: Allow fresh masonry to cure a minimum of 30 days, prime with Approved-prime GP.

Metal: Rusty metal must be cleaned with a wire brush and primed with prime Metal.

EPDM: Prime with Approved-prime EP primer/cleaner, ensure no primer residue remains.

PVC, Hypalon, aged TPO: Prime with Approved-prime SP.

Polyurethane foam: Apply directly (must be coated within 24 hours of installation).

Granulated Asphalt: Base coat with Approved-coat GS Base.

Smooth Asphalt: Base coat with Approved-coat SS Base.

Other: For other substrates refer to the Approved- Primer Recommendation table.

APPLICATION

This product may be brushed rolled or sprayed on a clean, dry surface. For details see Equipment Recommendations at the end of this sheet. If sprayed, material should be at least 75°F. Before applying additional coat, the previous coat must be completely dry and cured. If any contamination is present on the cured surface it must be washed and completely dry before application of subsequent coats.

Application Properties

Yield (1 gal to 100 sq ft)	8.8 dry mils
Dry Time (75° F)	90 mins @ 50% humidity
Recoat window	>6 hrs
Complete Cure	30 days

COVERAGE RATE

Apply CO-24 HT at the rate of 1.5 gallons per 100 sq. ft. (24 wet mils). Surface texture and wind will affect applied mil thickness.

ENVIRONMENTAL CONDITIONS

This product cures by water evaporation only. Product must not be applied when the ambient temperature is below 60°F or falling or if there is any possibility it could fall below 32°F within 24 hours of application. Application is not recommended if rain or dew is likely to occur before product dries. In high humidity conditions late afternoon applications should be avoided as overnight dew formation on uncured surface can cause coating wash-off. On marginal days, multiple applications of thin coats can ensure proper drying before rain or overnight freezes.

PONDED WATER

- MB Technology warranties do not cover damage due to ponding water.
- The National Roofing Contractors Association considers ponding water on any roof unacceptable.
(See the NRCA Roofing and Waterproofing Manual).

LIMITATIONS

Surface must be clean and dry. Application is not recommended on roofs with slopes less than 1/8 in 12 or where ponded water is present. Do not apply over wet substrates or when inclement weather is imminent. Complete cure of Co-24 HT requires complete evaporation of water. Cool temperatures and high humidity retard cure. In addition, this product is not recommended for use without a vapor barrier in cryogenic tank or cold storage roofing applications. It is not intended for use as a thermal barrier.

SAFE PRACTICES

This product is designed for professional installation. Before working with this product, you must read and become familiar with the available information on its risks, proper use and handling. Information sources include but are not limited to MSDS and product labels. More resources are available at polyurethane.org, sprayfoam.org, and approved-systemsco.com or by contacting MB Technology directly.

EQUIPMENT

Minimum requirements:

Brush

- Synthetic filament

Roller

- 1¼" nap roller

Spray

- 30:1 fluid to air ratio capable pump
- 2 1/2 gallons or more per minute (continuous)
- Filter screen 30 mesh or larger
- Hose rated to 2x maximum pump pressure
- Hose lining should be compatible with coating and required cleanout materials
- Hose lengths: (Largest diameter at pump)
 - 3/8 minimum 6 ft wip
 - 3/8 minimum I.D. up to 75 feet
 - 1/2 minimum I.D. up to 200 feet
 - 3/4 minimum I.D. over 200 feet
- Spray gun: Graco Hydra Mastic or equivalent
- Spray Tip:
 - Reversible self-cleaning type
 - Orifice size of .027 to .039
 - Fan angle of 40° to 50°
- Always use components rated for pump pressures.

Bleed Resistant, Base Coat for Silicones and Acrylic top coats



SURFACE PREPARATION

General: Surfaces to be coated should be dry, free of dust, dirt, oil, loose granules, gravel, peeling coating and other foreign matter. All wet insulation or foam should be removed and replaced with like materials.

For optimal results power wash all surfaces with a minimum of 2000 psi using a wide fan tip. All necessary precautions should be taken to avoid damage to the roof system. Mildew should be treated with a bleach solution (1 part bleach, 2 parts water) and rinsed thoroughly. Patch and repair cracks or holes with appropriate sealants or caulking materials.

APPLICATION

This product may be brushed rolled or sprayed on a clean, dry surface. For details see Equipment Recommendations at the end of this sheet. If sprayed, material should be at least 75°F. Before applying additional coat, the previous coat must be completely dry and cured. If any contamination is present on the cured surface it must be washed and completely dry before application of subsequent coats.

Application properties

Yield (1 gal to 100 sq ft)	8.8 dry mils
Dry Time (75° F)	90 mins @ 50% humidity
Recoat window	>6 hrs
Complete Cure	30 days

COVERAGE RATE

Apply CO-24 E Base Coat at the rate of 1.5 gallons per 100 sq. ft. (18 wet mils) for acrylic topcoat. Surface texture and wind will affect applied mil thickness.

Once completely dry, CO-24 E Base Coat may be top coated with Acrylic or Silicone Coating.

ENVIRONMENTAL CONDITIONS

This product cures by water evaporation only. Product must not be applied when the ambient temperature is below 60°F or falling or if there is any possibility it could fall below 32°F within 24 hours of application. Application is not recommended if rain or dew is likely to occur before product dries. In high humidity conditions late afternoon applications should be avoided as overnight dew formation on uncured surface can cause coating wash-off. On marginal days, multiple applications of thin coats can ensure proper drying before rain or overnight freezes.

PONDED WATER

- MB Technology warranties do not cover damage due to ponding water.
- The National Roofing Contractors Association considers ponding water on any roof unacceptable. (See the NRCA Roofing and Waterproofing Manual).

LIMITATIONS

Surface must be clean and dry. Application is not recommended on roofs with slopes less than 1/8 in 12 or where ponded water is present. Do not apply over wet substrates or when inclement weather is imminent. Complete cure of CO-24 E Base Coat requires complete evaporation of water. Cool temperatures and high humidity retard cure. In addition, this product is not recommended for use without a vapor barrier in cryogenic tank or cold storage roofing applications. It is not intended as a thermal barrier.

SAFE PRACTICES

This product is designed for professional installation. Before working with this product, you must read and become familiar with the available information on its risks, proper use and handling. Information sources include but are not limited to MSDS and product labels. More resources available at polyurethane.org, sprayfoam.org, or by contacting MB Technology directly.

EQUIPMENT

Minimum requirements:

Brush

- Synthetic filament

Roller

- 1¼" nap roller

Spray

- 30:1 fluid to air ratio capable pump
- 2 1/2 gallons or more per minute (continuous)
- Filter screen 30 mesh or larger
- Hose rated to 2x maximum pump pressure
- Hose lining should be compatible with coating and required cleanout materials
- Hose lengths: (Largest diameter at pump)
 - 3/8 minimum 6 ft wip
 - 3/8 minimum I.D. up to 75 feet
 - 1/2 minimum I.D. up to 200 feet
 - 3/4 minimum I.D. over 200 feet
- Spray gun: Graco Hydra Mastic or equivalent
- Spray Tip:
 - Reversible self-cleaning type
 - Orifice size of .027 to .039
 - Fan angle of 40° to 50°
- Always use components rated for pump pressures.

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Bleed Resistant, Base Coat for Silicones and Acrylic top coats



For Professional Use Only

DESCRIPTION

- A high quality, versatile plasticizer free, single component, water-based, acrylic elastomer Basecoat for spray, brush or roller application.
- Designed to provide a long lasting flexible membrane with exceptional resistance to weathering.
- Formulated with "bleed resistant" materials to block the bleed through of those asphaltic components that can discolor topcoats.
- Has excellent adhesion to most surfaces including metal, most single-ply roofs, wood and concrete.
- Has the unique ability to "breathe", providing a completely watertight membrane while allowing trapped moisture to escape.

RECOMMENDED USES

CO-24 B is designed as general purpose coating for applications over metal, properly primed single ply and asphaltic surfaces such as asphalt emulsions. Check with your MB technology representative for primer recommendations.

Property	Test Method	Result
Volume solids	ASTM D-1653	55.0 +3%
Weight Solids	ASTM D-1644	68.4 +3%
Tensile Strength	ASTM D-2370	310 +20 psi
Elongation	ASTM D-2370	315 +20%
Permeability	ASTM D-1653	9 + 1
VOC	EPA Method 24	< 50 g Liter
Hardness (Shore A)	ASTM D-2240	55 - 60
Viscosity		75 + 10 KU
Density		11.9 lbs per gallon
Flashpoint		None
Shelf Life		12 months
Clean Up		Water

COLORS

Standard Colors: White, Gray and Tan
Custom Colors are available for an additional charge.

PACKAGING/SHIPPING INFORMATION

<u>CONTAINER SIZE</u>	<u>SHIPPING CLASS</u>
55 Gallon drum (208.2 liters)	Class 55
5 Gallon pail (18.9 liters)	Class 55