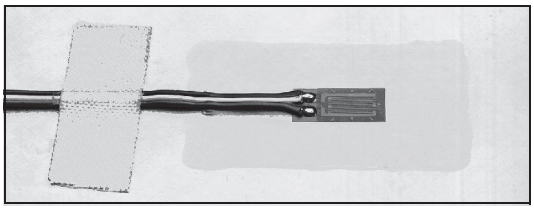
VISHAY PRECISION GROUP

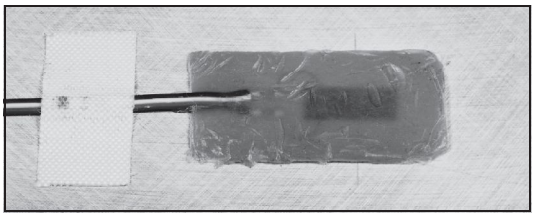
Protective Coatings

Contents

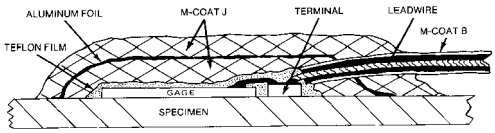
General Information



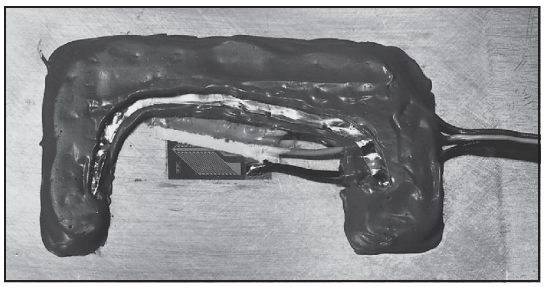
M-Coat A — General-purpose “transparent” polyurethane.



M-Coat W-1 — Microcrystalline wax.



Cross-sectional view of typical long-term installation



Recommended protective coating system for gage installations that must operate submerged in water for long periods of time

Strain gage performance is easily degraded by the effects of moisture, chemical attack, or mechanical damage. As a result, gages require varying degrees of protection according to the severity of the environment in which they must operate. While it is often practical to operate fully encapsulated gages without additional protection, in laboratory applications, open-faced gages should always be covered with a suitable coating as soon as possible after installation.

The coating compounds described on the following pages have been formulated specifically for use in protecting strain gage installations from damaging environmental conditions. The range of materials is adequate for handling the majority of gage protection requirements. In an air-conditioned laboratory, for instance, a single layer of M-Coat A would ordinarily provide sufficient protection against moisture, fingerprints, and other contaminants. When the gage installation must operate in a more severe environment, alternate coatings or combinations of coatings can be employed as illustrated above.

To serve as a preliminary guide for coating selection, the chart on the next page gives recommended coating systems for a variety of typical environments. The effectiveness of these materials and procedures has been experimentally validated on numerous occasions. However, application technique is also an important factor in the performance of any gage protection system. It is therefore good practice, particularly in the case of long-term installations, to verify by test that the system performs as required.

APPLICATION NOTES FOR PROTECTIVE COATINGS

1. For long-term tests, or in particularly hostile environments, carefully clean the surface before applying any protective coating. Coating extending into uncleaned areas will eventually loosen.
2. When several layers of coating are required, extend each overcoat beyond the previous layer.
3. Incomplete protection around leadwires is a common cause of moisture penetration into gage installations. (Many commercial leadwire insulations contain pinholes.)
4. Seal wire splices with HST-1 Heat Shrinkable Tubing.
5. Before applying any protective coating to an unprotected installation that has been exposed to high humidity, dry the installation thoroughly.
6. If the coating is a room-temperature-curing type, the moisture absorption rate can be decreased by post-curing at an elevated temperature.
7. Generally, a thick coating offers a more resistant path to moisture absorption than a thin one.
8. For a further vapor barrier, apply an intermediate layer of metal foil (aluminum, such as M-Coat FA-2, or stainless steel), or TFE Teflon® film (first treated with TEC-1 Tetra-Etch® compound for optimum bond). Since moisture can only penetrate around the edges of the foil or film, the path to the gage is much longer.
9. To evaluate protective coatings for long-term testing, monitor the zero-shift of the gage. Resistance-to-ground measurements can also indicate deterioration.

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Tetra-Etch is a Registered Trademark of W.L. Gore.

General Information

COATINGS SELECTION GUIDE		
Environment	**Recommendation**	
	Preferred	**Alternate**
Typical Laboratory:		
50%, or lower, relative humidity	M-Coat A	M-Coat C, or M-Coat D, or M-Coat F
Field Applications:		
Outdoor installations, shielded from rain and snow	M-Coat F	M-Coat J
High Humidity, Water Splash:		
Laboratory and field applications under damp or wet conditions	Short Term: 3140 RTV Long Term: M-Coat W-1 Wax	Short Term: 3145 RTV Long Term: M-Coat F
Water Immersion:		
Short-term, fresh water or salt water	Teflon® + M-Coat B (on vinyl-insulated leadwires) + M-Coat J	M-Coat W-1 Wax
Long-term, fresh water	Per diagram and photo on previous page	M-Coat W-1 Wax, or M-Coat F
Long-term, salt water	Per diagram and photo on previous page plus metal cap and conduit for leadwires	None
High-pressure water	Per diagram and photo on previous page	M-Coat F, or M-Coat W-1 Wax for short-term
Steam:		
+212°F [+100°C], long-term installation	Hermetically sealed metal cap, and conduit for leadwires	None
Concrete Surfaces:		
Long-term	Per diagram and photo on previous page, preceded by M-Bond AE-10	M-Bond GA-61 to seal concrete surface
Oils and Gasoline:		
Commercial oils, to +180°F [+80°C], gasoline, and kerosene	M-Coat D plus two or three layers of M-Coat B	3145 RTV + M-Coat B
Synthetic oils, to +200°F [+95°C]	Two or three layers of M-Bond 43B	M-Bond GA-61
High-Temperature Air:		
To +500°F [+260°C], with good mechanical protection	Short Term: M-Bond GA-61	3145 RTV

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M-Coat A

Micro-Measurements

VISHAY PRECISION GROUP

Protective Coating

FEATURES

- Easy to use
- Transparent
- Good general-purpose coating for laboratory use

Pb-free
RoHS COMPLIANT

DESCRIPTION

Air-drying solvent-thinned (xylene) polyurethane. Transparent. Moderate hardness; good flexibility. Can be removed with *M-LINE* Rosin Solvent or toluene. Film thickness 0.005-0.01 in [0.1-0.25mm] per coat.

General-purpose coating for lab use, and as base coating for field applications. Must be fully cured before addition of other coatings. Fair moisture resistance. Not readily attacked by many solvents. Convenient to use.

CHARACTERISTICS

Cure Requirements:
Dries tack-free at room temperature in 20 minutes. Completely dry in 2 hours.

Normal cure 24 hours at room temperature. Chemical resistance and coating hardness increase for 6 to 7 days.

Operating Temperature Range:
Short Term: –100° to +300°F [–75° to +150°C].
Long Term: –100° to +250°F [–75° to +120°C].

Shelf Life:
Minimum 1 year at +75°F [+24°C].

PACKAGING OPTIONS

Kit:
4 brush-cap bottles (1oz [30ml] ea)

Bulk:
Quart container

Protective Coating

FEATURES

- Good resistance to chemicals
- Air drying
- Also used for priming leadwires

Pb-free
RoHS COMPLIANT

DESCRIPTION

Air-drying solvent-thinned (MEK) nitrile rubber. Forms flexible rubbery coating. Do not use directly on exposed foil or bare leads. Often used to prime vinyl-insulated wire to improve bondability to other coatings. If used as primer on leads, thin 50:50 with MEK. Flexible at cryogenic temperatures. Excellent resistance to gasoline, kerosene, commercial oils. Electrical properties poorer than other M-Coats, particularly at elevated temperatures.

CHARACTERISTICS

Cure Requirements:
Air-dries in 1 hour at +75°F [+24°C]. Do not apply subsequent protective coatings for at least 2 hours from time of application. Normal cure 24 hours at room temperature.

Further improve chemical resistance with 1 hour bake at +200°F [+95°C].

Operating Temperature Range:
Short Term: –320° to +300°F [–195° to +150°C].
Long Term: –320° to +200°F [–195° to +95°C].

Shelf Life:
Minimum 1 year at +75°F [+24°C].

PACKAGING OPTIONS

Kit:
4 brush-cap bottles (1oz [30ml] ea)

Bulk:
Quart container

M-Coat C

Micro-Measurements

VISHAY PRECISION GROUP

Protective Coating

FEATURES

- Air drying
- Low reinforcement
- Transparent

Pb-free
RoHS COMPLIANT

DESCRIPTION

Solvent-thinned (naphtha) RTV silicone rubber. Cures to tough, rubbery transparent film. Good all-around mechanical and electrical properties. Completely noncorrosive. Film thickness 0.015-0.02 in [0.4-0.5mm] per coat.

Recommended for lab and field installations that require a high degree of protection in thin coatings. Good water-splash protection. Good chemical resistance.

CHARACTERISTICS

Cure Requirements:
Solvents evaporate in about 60 minutes at room temperature. Allow 20 minutes drying time between coats.

Cures in 24 hours at +75°F [+24°C] and 50% RH. Longer cure at lower humidity.

Operating Temperature Range:
Short Term: –75° to +550°F [–60° to +290°C].
Long Term: –75° to +500°F [–60° to +260°C].

Shelf Life:
Minimum 9 months at +75°F [+24°C] kept tightly sealed.

PACKAGING OPTIONS

Kit:
4 brush-cap bottles (1oz [30ml] ea)

Bulk:
Quart container

Protective Coating

FEATURES

- Air drying
- Opaque
- Good base coating

Pb-free
RoHS COMPLIANT

DESCRIPTION

Air-drying solvent-thinned (toluene) acrylic. Dense white color for easy visual inspection of coverage. Forms hard thin coating capable of high elongation. Can be removed with *M-LINE* Rosin Solvent or toluene. Apply in thin coats to prevent solvent entrapment. Film thickness 0.005-0.01 in [0.1-0.25mm] per coat.

Good general laboratory moisture barrier. Electrical leakage negligible even when uncured. Good base coating for subsequent applications of M-Coat B. Convenient for anchoring and insulating intrabridge wiring and jumper leads. Chemical resistance only fair but can be improved by postcure at +175°F [+80°C] for 30 minutes.

CHARACTERISTICS

Cure Requirements:
Solvents evaporate in about 30 minutes at +75°F [+24°C]. Fully cured in 24 hours. Overcoats can be applied 30 minutes from time of application. Coating binder begins to sublimate at +280°F [+140°C], but residue is inorganic and will not become conductive.

Operating Temperature Range:
Short Term: –100° to +325°F [–75° to +160°C].
Long Term: –100° to +250°F [–75° to +120°C].

Shelf Life:
Minimum 1 year at +75°F [+24°C] kept tightly sealed.

PACKAGING OPTIONS

Kit:
4 brush-cap bottles (1oz [30ml] ea)

Bulk:
Quart container

M-Coat F

Micro-Measurements

VISHAY PRECISION GROUP

Protective Coating

FEATURES

- Excellent for outdoor applications
- No cure required
- Versatile

DESCRIPTION

Kit of selected materials easily applied in various combinations. Provides environmental and mechanical protection. Particularly well-suited to field applications where conditions are not ideal. Typical applications include pipelines, tunnels, bridges, reinforcement bars in concrete structures, heavy machinery, ships, aircraft, motor vehicles, and pressure vessels.

CHARACTERISTICS

Cure Requirements:
No mixing or curing required.

Operating Temperature Range:
Short Term: –70° to +250°F [–55° to +120°C].
Long Term: –20° to +175°F [–30° to +80°C].

Shelf Life:
Minimum 1 year at +75°F [+24°C].

PACKAGING OPTIONS

Kit:
12 pieces (4-1/2in x 3-3/4in x 1/8in [115 x 95 x 3.2mm]) each:
- M-Coat FB Butyl Rubber Sealant
- M-Coat FN Neoprene Rubber Sheets

1 roll (0.003in x 2in x 20ft [0.08mm x 50mm x 6m])
M-Coat FA Aluminum Foil Tape

2 brush-cap bottles (1/2oz [15ml] ea)
M-Coat B Air-Drying Nitrile Rubber Coating

M-Coat FT Teflon® Tape

Bulk:
M-Coat FB-2 Butyl Rubber Sealant — 25 pieces

M-Coat FN-2 Neoprene Rubber Sheets — 25 pieces

M-Coat FA-2 Aluminum Foil Tape — 20-ft [6-m] roll

M-Coat B Air-Drying Nitrile Rubber Coating —
4 brush-cap bottles (1oz [30ml] ea)

M-Coat FT Teflon® Tape
1-x-20-x-0.003-in [25-x-500-0.08-mm] — 10 pieces

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Protective Coating

FEATURES

- Excellent protection from moisture
- Low reinforcement
- Easy to apply

Pb-free

RoHS COMPLIANT

DESCRIPTION

Solvent-thinned butyl rubber designed to provide excellent moisture protection with low reinforcement effects. Principally used in transducers. Exhibits a paste-like consistency and is normally applied with a spatula. Thickness over 0.1 in [2.5mm] not recommended.

CHARACTERISTICS

Cure Requirements:
Air dry 8 hours, followed by an elevated temperature cure of +150° to +175°F [+65° to +80°C] for 4 to 6 hours.

Operating Temperature Range:
0° to +175°F [-20° to +80°C].

Shelf Life:
Minimum 12 months at +75°F [+24°C].

PACKAGING OPTIONS

Kit:
75g collapsible tubes, 4 each

Bulk:
Quart container

Protective Coating

FEATURES

- Excellent resistance to moisture
- Good resistance to chemicals
- Good protection against mechanical damage
- Room-temperature cure

Pb-free
RoHS COMPLIANT

DESCRIPTION

Two-part polysulfide liquid polymer compound. Can be applied in coating thickness of 1/8 in [3 mm] without flowing on vertical surfaces. Tough, flexible coating. No weighing required. Uncured coating can be removed with CSM Degreaser, Rosin Solvent, or MEK.

General-purpose coating. Good protection against oil, grease, most acids and alkalies, and most solvents. Strong solvents may cause swelling and softening with time. Concentrated acids eventually break down coating. Good salt-water immersion coating.

CHARACTERISTICS

Cure Requirements:
Mixed pot life 30 minutes at +75°F [+24°C].

Normal cure in 24 hours at +75°F [+24°C].

To accelerate cure and improve properties, cure 2 hours at +130°F [+55°C].

Operating Temperature Range:
Short Term: –50° to +250°F [–45° to +120°C].
Long Term: –50° to +200°F [–45° to +95°C].

Shelf Life:
Minimum 5 months at +75°F [+24°C].

PACKAGING OPTIONS

M-Coat J-1:
- 1 mixing dispenser [70g]
- 1 piece M-Coat FT Teflon® Tape
  1 x 20 x 0.003in [25 x 500 x 0.08mm]

M-Coat J-3:
- 3 mixing dispensers [70g ea]
- 3 pieces M-Coat FT Teflon® Tape
  1 x 20 x 0.003in [25 x 500 x 0.08mm]

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Protective Coating

FEATURES

- Outstanding moisture protection
- Easy to apply
- No cure required

Pb-free

RoHS COMPLIANT

DESCRIPTION

Microcrystalline wax. Has very low water-vapor transmission rate. Attacked by most solvents. Coating thickness 0.015-0.06 in [0.4-1.5mm].

Excellent water-immersion coating. Poor mechanical protection. Often used as an intermediate coating.

CHARACTERISTICS

Application Requirements:
Heat to at least +170°F [+75°C] to melt. For best wetting and sealing, heat specimen surface to at least +100°F [+45°C] before applying.

No cure required.

Operating Temperature Range:
0° to +150°F [–20° to +65°C].

Shelf Life:
No limit.

PACKAGING OPTIONS

Kit:
5 tins (1oz [28g] ea)

Bulk:
1 package (5lb [2.25kg])

3140 RTV

Micro-Measurements

VISHAY PRECISION GROUP

Protective Coating

FEATURES

- Easy to use
- Translucent
- Self-leveling
- Room-temperature cure

Pb-free
RoHS COMPLIANT

DESCRIPTION

Single-component 98%-solids RTV silicone rubber. Room-temperature cure (humidity-reactive). Completely non-corrosive. Forms tough, rubbery coating. Excellent properties. Translucent; permits full inspection of installation. Self- leveling; forms fairly thick coats 0.03-0.06 in [0.75-1.5mm].

Easy-to-apply general-purpose coating. Lab and field use. Low reinforcing effects. High-elongation capabilities. Good for short-term water immersion. Resists many chemicals. Bonds to contaminated surfaces for short-term tests; for best long-term protection, chemically clean surface and prime with *M-LINE* RTV Primer No. 1.

CHARACTERISTICS

Cure Requirements:
Tack-free in approximately 2 hours.

Cure 24 hours at +75°F [+24°C], 50% RH for each 0.02-in [0.5-mm] thickness. Longer cure at lower humidity levels.

Note: Will not cure properly if coating is not exposed to atmosphere.

Operating Temperature Range:
Short Term: –100° to +600°F [–75° to +315°C].
Long Term: –65° to +500°F [–55° to +260°C].

Shelf Life:
Minimum 6 months at +75°F [+24°C].

PACKAGING

Kit:
1 collapsible metal tube (3oz [85g])

Accessory:
4 brush-cap bottles (1oz [30ml] ea) RTV Primer No. 1

Protective Coating

FEATURES

- Easy to use
- Good mechanical protection
- Good cable anchor
- Room-temperature cure

Pb-free

RoHS COMPLIANT

DESCRIPTION

Single-component 98%-solids RTV silicone rubber. Room temperature cure (humidity-reactive). Completely non-corrosive. Forms tough, rubbery coating. Excellent properties. Opaque gray coating of higher strength and toughness than 3140 RTV. Not self-leveling.

Easy-to-apply general-purpose coating. Lab and field use. Low reinforcing effects. High-elongation capabilities. Good for short-term water immersion. Resists many chemicals. Bonds to contaminated surfaces for short-term tests; for best long-term protection, chemically clean surface and prime with *M-LINE* RTV Primer No. 1. Very thick coatings can be applied without sag or runoff. Tear strength much higher than 3140. Good cable anchor.

CHARACTERISTICS

Cure Requirements:
Tack-free in approximately 2 hours.

Cure 24 hours at +75°F [+24°C], 50% RH for each 0.02-in [0.5-mm] thickness. Longer cure at lower humidity levels.

Note: Will not cure properly if coating is not exposed to atmosphere.

Operating Temperature Range:
Short Term: –100° to +600°F [–75° to +315°C].
Long Term: –65° to +500°F [–55° to +260°C].

Shelf Life:
Minimum 6 months at +75°F [+24°C].

PACKAGING OPTIONS

Kit:
1 collapsible metal tube (3oz [85g])

Accessory:
4 brush-cap bottles (1oz [30ml] ea) RTV Primer No. 1

Protective Coatings

FEATURES

- Thin, hard coating
- Good electrical and mechanical protection
- Good leadwire anchor
- Also used as an adhesive

Pb-free
RoHS COMPLIANT

DESCRIPTION

Two-component 100%-solids epoxy systems. Primarily used as an adhesive. Often used as protective coatings because of low vapor-transmission rate. AE-15 is superior but requires heat cure. Single coating thickness 0.005-0.015in [0.1–0.4mm].

Primarily used where a thin hard coating is required to resist water immersion for short time. Good electrical/mechanical protection where high velocity fluids are present and minimum disturbance to flow is necessary. Good leadwire anchor. Often used as precoat for sealing concrete.

CHARACTERISTICS

Cure Requirements:
AE-10 minimum cure 6 hours at +75°F [+24°C]; AE-15 is 6 hours at +125°F [+50°C]. To accelerate cure at higher temperatures, see cure schedules for M-Bond AE-10 and M-Bond AE-15.

AE-10 mixed pot life 15-20 minutes; AE-15 is 1-1/2 hours at +75°F [+24°C].

Operating Temperature Range:
–100° to +200°F [–75° to +95°C].

Shelf Life:
Minimum 12 months at +75°F [+24°C]; or
18 months at +40°F [+5°C].

PACKAGING OPTIONS

Kit:
6 mixing jars AE Resin [10g] ea
1 bottle Curing Agent 10 or 15 (1/2oz [15ml])

Bulk:
1 bottle AE Resin [200g]
1 bottle Curing Agent 10 [40g] or
1 bottle Curing Agent 15 [25g]

Protective Coating

FEATURES

- Excellent chemical, electrical and mechanical properties
- Thin, hard coating
- Excellent in transducer service
- Also used as an adhesive
- Elevated-temperature cure

Pb-free
RoHS COMPLIANT

DESCRIPTION

Solvent-thinned (MEK and xylene) single-component epoxy resin compound. Primarily used as an adhesive. Cured coating 0.002-0.01in [0.05-0.25mm] thick.

Provides excellent chemical, electrical, and mechanical properties when fully cured. Film is hard, with high heat-distortion temperature. Excellent in transducer service.

CHARACTERISTICS

Cure Requirements:
Minimum cure 2 hours at +325°F [+160°C]. Preferred cure 2 hours at +375°F [+190°C].

Operating Temperature Range:
Short Term: –452° to +400°F [–269° to +205°C].
Long Term: –452° to +300°F [–269° to +150°C].

Shelf Life:
Minimum 9 months at +75°F [+24°C]; or 18 months at +40°F [+5°C.]

PACKAGING

Kit:
4 brush-cap bottles (1oz [30ml] each)

Single Bottle:
1 brush cap bottle [30ml] premixed.

M-Bond GA-61

Micro-Measurements

VISHAY PRECISION GROUP

Protective Coating

FEATURES

- Excellent mechanical and chemical protection.
- Good leadwire anchor.
- Also used as an adhesive
- Elevated-temperature cure.

DESCRIPTION

Two-component 100%-solids, elevated-temperature-curing epoxy system. Very high viscosity. Generally applied with a spatula, and can be contoured to the surface. Coating thickness 0.005-0.03in [0.1-0.75mm].

Commonly used for mechanical protection at elevated temperatures and in highly reactive hot synthetic oils such as in aircraft engines. Very good leadwire anchor to high g-fields (see Application Note TT-601, VRH-AN0601). Can be used to fill slots or grooves. Can be machined after cure.

CHARACTERISTICS

Cure Requirements:
Cure 6 hours at +250°F [+120°C],
or 3 hours at +300°F [+150°C],
or 2 hours at +350°F [+175°C],
or 1 hour at +400°F [+205°C].

Mixed pot life 10 hours at +75°F [+24°C]; increased by refrigeration, indefinite by freezing.

Operating Temperature Range:
Short Term: –100° to +500°F [–75° to +260°C].
Long Term: –100° to +400°F [–75° to +205°C].

Shelf Life:
Minimum 6 months +75°F [+24°C];
refrigeration recommended.

PACKAGING

Kit:
3 mixing jars ea Resin and Hardener [45g].

Protective Coating

FEATURES

- No cure required
- Quick application
- Excellent mechanical protection
- Resistant to water penetration

Pb-free

RoHS COMPLIANT

DESCRIPTION

Single-component butyl rubber patch with vinyl carrier. Quick application, even at low temperature. Excellent mechanical protection. Resistant to water penetration.

CHARACTERISTICS

Operating Temperature Range:
–20° to +200°F [–30° to +95°C].

Shelf Life:
Minimum 1 year at +75°F [+24°C].

Cure Requirements:
None

PACKAGING OPTIONS

Kit:
5 sheets 4 x 6 x 0.1 in [100 x 150 x 2.5mm]

Barrier WD

Micro-Measurements

VISHAY PRECISION GROUP

Protective Coating

FEATURES

- Flexible moisture protection
- Ready to use immediately after application. No curing required.

Pb-free RoHS COMPLIANT

DESCRIPTION

Single-component soft paste wax. General-purpose moisture protection.

CHARACTERISTICS

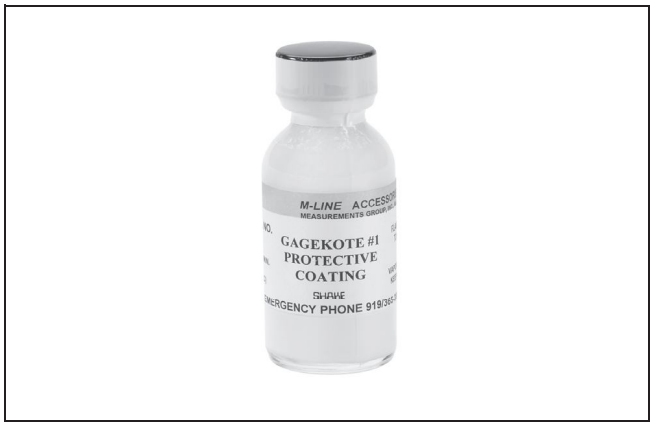
Operating Temperature Range:
–100° to +150°F [–73° to +66°C].

Shelf Life:
Minimum 1 year

PACKAGING

Kit:
1-lb [454-g] can

Protective Coating



OTHER *M-LINE* COATINGS COMPATIBLE WITH GAGEKOTE #1:

- Gagekote #5
- Epoxylite #813

Pb-free
RoHS COMPLIANT

DESCRIPTION

Solvent-thinned (toluene) synthetic resin. Often used as a precoat for Gagekote #5, and Epoxylite #813. Resistant to moisture and offers a wide operating temperature range. Provides limited mechanical protection. Convenient to use.

CHARACTERISTICS

Operating Temperature Range:
–320° to +850°F [–195° to +455°C].

Shelf Life:
Minimum 2 years at +75°F [+24°C].

Cure Requirements:
Single coat air dry for 15 minutes at +75°F [+24°C]. Prior to encapsulation by other coatings, air dry 4 hours at +75°F [+24°C] or 30 minutes at +150°F [+65°C] to prevent solvent entrapment.

PACKAGING OPTIONS

Kits:
1 brush-cap bottle [1oz/30ml]
12 brush-cap bottles [1oz/30ml each]
1 bottle [8oz/240ml each]

Gagekote #5

Micro-Measurements

VISHAY PRECISION GROUP

Protective Coating

OTHER *M-LINE* COATINGS COMPATIBLE WITH GAGEKOTE #5:

- M-Coat W-1 Wax
- M-Coat B

Pb-free
RoHS COMPLIANT

DESCRIPTION

Two-part 100%-solids modified polysulfide epoxy. Good for general laboratory and field use. Prime leadwire insulation with M-Coat B. Excellent mechanical protection. Resistant to salt water, gasoline, hydrocarbon oils, most acids, alkalines, and solvents.

CHARACTERISTICS

Operating Temperature Range:
–90° to +250°F [–68° to +120°C].

Shelf Life:
Minimum 1 year at +75°F [+24°C].

Cure Requirements:
Air dry 6 hours at +75°F [+24°C] or 1 hour at +150°F [+66°C].

PACKAGING OPTIONS

Kits:
4 jars Part A [1.5oz/45gm]
4 jars Part B [0.5oz/15gm]

1 jar Part A [11oz/340gm]
1 jar Part B [3.5oz/114gm]

Protective Coating

OTHER *M-LINE* COATINGS COMPATIBLE WITH GAGEKOTE #8:

- Gagekote #5
- Gagekote #7

Pb-free
RoHS COMPLIANT

DESCRIPTION

Single component transparent acrylic coating. Recommended as an under or over coating for Gagekote #5, and Gagekote #7. Good for anchoring intra-bridge wiring in high performance transducers. Extremely flexible and resistant to direct water immersion, mild solvents and chemicals. Film thickness of 0.005 - 0.01 in. [0.1 - 0.25mm] per coat.

CHARACTERISTICS

Operating Temperature Range:
–100° to +270°F [–75° to +130°C].

Shelf Life:
Minimum 1 year at +75°F [+24°C].

Cure Requirements:
Single coat air dry for 10 minutes at +75°F [+24°C]. Prior to encapsulation by other coatings, air dry 4 hours at +75°F [+24°C] or 30 minutes at +150°F [+65°C] to prevent solvent entrapment.

PACKAGING OPTIONS

Kits:
1 brush-cap bottle [1oz/30ml]
12 brush-cap bottles [1oz/30ml each]
1 bottle [8oz/240ml]
1 bottle [32oz/960ml]

Gagekote #11

Micro-Measurements

VISHAY PRECISION GROUP

Protective Coating

OTHER *M-LINE* COATINGS COMPATIBLE WITH GAGEKOTE #11:

- H-Cement
- Denex #2 Ceramic Cement
- PBX Cement

Pb-free
RoHS COMPLIANT

DESCRIPTION

Single-component clear coating. High temperature protective coating, when cured, seals and protects free filament strain gage installations. Must be reapplied after exposure to temperature excursions above +900°F [+482°C].

CHARACTERISTICS

Operating Temperature Range:
–452° to +900°F [–269° to +482°C].

Shelf Life:
Minimum 1 year at +75°F [+24°C].

Cure Requirements:
Air dry 2 hours at +75°F [+24°C], followed by 1 hour at +350°F [+175°C].

PACKAGING OPTIONS

Kit:
1 brush-cap bottle [1oz/30ml]