



MASTICS FOR CORROSION PROTECTION

CA-9 Mastic [Oil Resistant] CA-14 Mastics [General Maintenance]

DESCRIPTION:

POLYGUARD CA-9 MASTIC is a cold applied, solvent release, corrosion resistant protective coating for waterproofing underground metal surfaces. This single component bitumen coating has high film building characteristics and provides dry film thickness up to 12 mils per coat. The solvent-resin combination obtains good substrate wetting, consequently a primer is not required for **CA-9 MASTIC**.

CA-9 MASTIC is a solution of coal tar and vinyl resin. The combination of the tar and the vinyl provides enhanced resistance to crude oil and aliphatic petroleum products.

POLYGUARD CA-14 MASTIC is a general maintenance coating of excellent quality for use on buried steel. It is a solution of bitumen with mineral filler. It is self priming.

POLYGUARD 400 WRAP is a reinforcing fabric of spun bonded continuous thermoplastic filaments in mat form. The wrap is supplied in rolls of 4" (.101m), 6" (.152m), 9" (.228m) and 12" (.305m) on 3" (.076m) cores.

USES:

CA-9 MASTIC is recommended where a corrosive environment is encountered, including crude oil saturated soil. It is used for below ground corrosion protection of pipe, tanks, valves, mechanical couplings and other irregular shaped steel structures.

CA-14 MASTIC is used for below ground corrosion protection of pipe, tanks, valves, mechanical couplings and other irregular shaped steel structures. CA-14 coating is satisfactory as a protective coating for sewer piping and below-grade concrete structures.

400 WRAP is used to reinforce and protect **POLYGUARD MASTICS**.

ADVANTAGES:

Here are some advantages of **POLYGUARD MASTICS and 400 WRAP**:

- High solids content.
- Low cost per mil durable coating for underground substances.
- Excellent resistance to water and moisture vapor transmission.
- Resistant to deterioration from acids and alkalis encountered in normal soil.
- Easily applied to irregular and complex shapes such as valves, flanges, tees, elbows and mechanical couplings.
- Vinyl component enhances the resistance of **CA-9 MASTIC** to most crude oil and aliphatic hydrocarbons.
- No priming required.
- **400 WRAP** is not affected by the solvents or solids of the mastic. It provides excellent reinforcement and mechanical exterior protection for the mastic, as well as a good platform for a second coat of mastic.
- **400 WRAP** causes no irritation in handling. The fiber does not float off in the air during unwind and does not cause skin irritation or inhalation irritations.

GUIDE SPECIFICATIONS:

Handling Materials: **POLYGUARD MASTICS** should be handled in such a manner as to prevent injury to the materials. All containers should be protected from weather and lids securely fastened. In cold weather, materials shall be stored in heated buildings and transported in warmed vehicles. Store above 60°F (16°C).

SURFACE PREPARATION: Steel surfaces should be cleaned of all paint, oils, grease, mill scale, loose welding residue, burrs, dust, dirt, frost, moisture and other foreign matter. Where feasible and practical the surface can be blasted to a NACE No. 3 finish. Otherwise hand wire brush cleaning method may be used providing all above foreign matter is removed. No priming is required.

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This information is based on our best knowledge, but
POLYGUARD cannot guarantee the results to be obtained.

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- American Natl. Standards Institute
- Dutch Council for Certification
- Deutscher Akkreditierungs Rat

APPLICATION: POLYGUARD MASTICS should be brush applied. They are normally applied in a two coat system. The first coat should be dry before the second coat is applied. Drying time is dependent upon atmospheric and surface temperature. Coating should be done in areas free of dust and moisture.

COVERAGE RATE: POLYGUARD CA-9 MASTIC covers approximately 60 square feet per gallon (1.48m²/liter) on smooth surfaces. The dry film thickness will be approximately 12 mils with a wet film thickness of 20 mils to obtain this coverage. Two coats are recommended.

POLYGUARD CA-14 MASTIC will cover approximately 75-80 square feet per gallon (1.96M²/Liter), on smooth surfaces. The dry film thickness will be approximately 12 mils with a wet film thickness of 20 mils to obtain this coverage. Two coats are recommended.

It is suggested that an application of **POLYGUARD 400 WRAP** be applied over the first mastic coating. The second mastic coat shall be applied on top of the **400 WRAP** which acts as a reinforcement in the coating. It will also form a platform for the second coat. After the second coat is applied, another layer of **400 WRAP** shall be applied to the exterior surface of the mastic. Caution should be taken to lay the wrap into the outside surface of the mastic and not to pull #400 wrap through mastic onto pipe surface. Use minimum tension during application.

TESTING: The applied coating shall be checked visually for bare areas. Recoat these areas with **POLYGUARD MASTIC** to the required mil thickness.

BACKFILLING: Mastics are subject to displacement or damage from backfill. It is therefore good practice to let each coat of mastic dry prior to backfilling to minimize this occurrence. If quick backfilling is desired (before the mastic is set) the area may be overwrapped with **Polyguard SP6 Outerwrap**. This will provide protection against displacement of the mastic.

PROPERTIES 400 FABRIC	NOMINAL PROPERTIES	PROPERTIES MASTICS	NOMINAL CA 9	NOMINAL CA 14
Weight/Yd. ²	0.3 oz.	Solids by Weight	53%	67%
Average Thickness ASTM D 1777	2.3 mils	Specific Gravity	1.04	1.1
LBS Tear Strength ASTM D 2263-68	MD 3.4 lbs.	Typical Viscosity	75 KU Modified Stormer @ 77°F	110 KU Modified Stormer @ 77°F
	TD 2.4 lbs.	Flash Point	28°F TCC	40°F TCC
Air Permeability (CMF/ft ²) ASTM D 737-69	13.00	Substrate Temperature Limits	250°F	150°F

PRECAUTIONS:

The mastics are industrial coatings and would be harmful or fatal if swallowed. They are marked as red label from the standpoint of flash point. Prohibit flames, sparks, welding and smoking during application. Refer to product label for handling, use and storage precautions. Solvents, including thinner, could be irritating to the eyes. In case of contact with eyes, flush with water and contact physician.

Avoid prolonged contact with skin and breathing of vapor or spray mist from mastic. In confined areas, use adequate forced ventilation, fresh air masks, explosion proof equipment, and clean clothing.

Close container after each use.

This material contains MEK and toluol as a solvent. It may not be acceptable for use under some fire and air pollution regulations. Consult local regulations.

Material has a storage life of one year in unopened containers, from shipment date, when storage conditions as prescribed by manufacturer are followed. Minimum storage temperature is 60°F (16°C).

Review precautions carefully in respect to flash point and other special handling procedures.

This material is sold by Polyguard Products, Inc. only for the purposes described in this literature. Any other use of the products is the responsibility of the purchaser and Polyguard Products does not warrant nor will be responsible for any misuse of these products. Polyguard Products will replace material not meeting our published specifications within one year from date of sale.

MATERIAL SAFETY DATA:

All Polyguard Products Material Safety Data Sheets (MSDS) and precautionary labels should be read and understood by all user supervisory personnel and employees before using. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use, health, safety, and disposal of the product.

MAINTENANCE:

None required.

Technical Service:

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