

# POLYGUARD MASTICS

CA-9 [Oil Resistant]

CA-14 [General Maintenance]

Reinforcing Fabric No. 400



## DESCRIPTION:

**POLYGUARD CA-9 MASTIC** is a cold applied, solvent release, corrosion resistant protective coating for waterproofing. This single component bitumen coating has high film building characters and provides a 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. It is a solution of bitumen with mineral filler. It is self priming.

**POLYGUARD 400 WRAP** consists 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 an extremely 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 as a reinforcement and as an outer covering and protective wrapping for **POLYGUARD MASTICS** when the coating is to be backfilled with minimum time allowed for drying.

No other use of these materials is to be made without prior approval of **POLYGUARD PRODUCTS, INC.** As to service and method of application.

## ADVANTAGES:

Following are the advantages of **POLYGUARD MASTICS** and **400 WRAP**:

- 1) Have high solids content.
- 2) Provides a low cost per mil durable

- 3) coating for underground substances.
- 3) Provides excellent resistance to water and moisture vapor transmission.
- 4) Provides coatings that are resistant to deterioration from below ground acids and alkalis that are encountered in normal soil.
- 5) They contain solvents that are fast drying which permit quick backfilling application for below ground installations.
- 6) They are easily applied to irregular and complex shapes such as valves, flanges, tees, elbows and mechanical couplings.
- 7) The vinyl component enhances the resistance of **CA-9 MASTIC** to most crude oil and aliphatic hydrocarbons.
- 8) **400 WRAP** is not affected by the solvents or solids of the mastic. It provides an excellent reinforcement and mechanical exterior protection for the mastic to help prevent backfill damage. It can also provide a good platform for a second coat of mastic.
- 9) No priming required.
- 10) **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.

TECHNICAL DATA:		
NOMINAL PROPERTIES:	CA-9 MASTIC	CA-14 MASTIC
Appearance	Smooth, Homogenous Free of bubbles	Smooth, Homogenous Free of bubbles
Color	Black	Black
Solids by Weight	53.0%	67.0%
Specific Gravity	1.04	1.1
Typical Viscosity	85 KU Modified Stormer, 77°F	110 KU Modified Stormer, 77°F
Flash Point	28°F, TCC (-2°C)	40°F, TCC (4°C)
Substrate Operating Temperature Limits	250°F (121°C)	150°F (66°C)
Coverage Rate Per Gallon Per Coat	60 Sq. Ft.	75-80 Sq. Ft.

## GUIDE SPECIFICATIONS:

**Handling Materials:** **POLYGUARD MASTICS** shall be unloaded and stored in such a manner as to prevent injury to the materials. All containers shall be protected from weather and lids securely fastened. No packages should be dropped or thrown from trucks. Packages shall not be handled with hooks. In cold weather, materials shall be stored in heated buildings and transported in warmed vehicles. Store at temperatures

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above 60°F (16°C) until date of use.

**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.

**PRIMING:** NONE REQUIRED

**APPLICATION:** *POLYGUARD MASTICS* may be applied by brush, roller or towel. Brush application provides the best adhesion to the substrate.

*POLYGUARD MASTICS* are normally applied by a two coat system. The first coat should be dry to the touch before the second coat is applied. Drying time will be dependent upon atmospheric and surface temperature after the coating is applied. Coating should be done in areas free of dust and moisture.

**COVERAGE RATE:** *POLYGUARD CA-9 MASTIC* will cover approximately 60 square feet per gallon (1.48m<sup>3</sup>/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 (1.96M<sup>3</sup>/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.

**BACKFILLING:** Mastics are subject to displacement or damage from backfill. It is therefore good practice to let each coat of mastic dry as much as possible prior to backfilling to minimize this occurrence.

Where prompt backfilling is required it is suggested that an application of *POLYGUARD 400 WRAP* be applied over the coating approximately one hour after drying of the first coat. The second coat shall be applied on the *400 WRAP* which will remain 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.

**THINNING:** At temperatures below 50°F (10°C) it may be necessary to thin the *POLYGUARD MASTICS*. Use toluol to reduce the viscosity to be equal to the viscosity of the material at 77°F (25°C). The application in cold air will retard drying due to the increased solvent and the lower

temperature. Approximately one quart (.94 l) of toluol to each five gallons (18.92 l) of *POLYGUARD MASTIC* is normally adequate.

**TESTING:** On metal surfaces, check for pinholes, holidays and bare areas with non-destructive holiday detector. Recoat affected or damaged areas with *POLYGUARD MASTIC* to the required mil thickness.

TECHNICAL DATA:	
NOMINAL PROPERTIES: 400 MAT	
Weight/Yd. <sup>2</sup>	0.3 oz.
Average Thickness ASTM D 1777	2.3 mils
LBS Tear Strength ASTM D 2263-68	
Machine Direction	3.4 lbs.
Transverse Direction	2.4 lbs.
Air Permeability (CMF/ft <sup>2</sup> ) ASTM D 737-69	13.00

#### 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.

#### KEEP OUT OF REACH OF CHILDREN.

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

Material has a storage life of one year 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 offered for sale by *POLYGUARD PRODUCTS, INC.* only for the expressed purposes as described in this literature. Any use of the products described in this literature for purposes other than taught therein by *POLYGUARD PRODUCTS, INC.* shall be the responsibility of the purchaser and *POLYGUARD PRODUCTS, INC.* Does not warrant nor will be responsible for any misuse of these products. *POLYGUARD PRODUCTS, INC.* Will replace, F.O.B. Ennis, Texas, material not meeting our manufacturer's specifications, one year from date of sale.

*POLYGUARD* products as described herein are for industrial use only. The application procedures should be performed by workmen who are skilled in the application of materials described herein in accordance with manufacturer specifications.

#### MATERIAL SAFETY DATA:

All Material Safety Data Sheets and precautionary labels should be read and understood by all user supervisory personnel and employees before using. Consult *POLYGUARD PRODUCTS, INC.* Material Safety Data Sheets and OSHA regulations for additional safety and health information for the products described herein. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use of the product including waste disposal.

This is not a Material Safety Data Sheet and is not to be used as such. *POLYGUARD* has prepared separate Material Safety Data Sheets on each product.

#### MAINTENANCE:

Not required.