Polyguard

Pipeline Products

600 UV 350 CORROSION COATING SYSTEM

WEATHER RESISTANT 50 MIL PIPELINE COATING FOR HAND APPLICATION

DESCRIPTION

POLYGUARD 600 UV 350 COATING SYSTEM is a laminated protective coating which is applied over its companion liquid adhesive. The primary corrosion coating material is a rubberized bitumen coating, bonded to an organic ethylene polymer film, which provides UV resistance. For a product that conforms easily, 600 UV 350 has exceptional adhesion. The coating is supplied in rolls for easy application on all sizes of pipe. 600 UV 350 is manufactured with a disposable release sheet.

POLYGUARD 600 LIQUID ADHESIVE is a fast drying, rubber based material in a solvent solution. It will conform to most local air pollution requirements.

USES:

600 UV 350 COATING is used as a hand applied coating and wrapping for steel pipe that is exposed above and below ground whenever resistance to ultra violet is a consideration.

No other use of these materials is to be made without prior approval of Polyguard Products as to service and method of application.

ADVANTAGES:

Following are the advantages of ***600 UV 350***:

- *The organic ethylene polymer film backing is more resistant to UV rays than most other types of films.*
- *The film backing is resistant to a variety of chemical environments, including acids, salts, and bases, without significant property loss. Consult Polyguard for more information on these properties.*
- *Provides uniform coating thickness.*
- *Has excellent ability at the lap to resist infiltration of moisture.*
- *Has elastomeric properties to accommodate normal expansion and contraction of the substrate.*
- *Included as the corrosion coating element is a rubberized bitumen coating.*

600 UV 350 Corrosion Coating – Typical Properties			
Property	**ASTM Method**	**English**	**Metric**
Color		Black	Black
Coating Thickness	D 1000	.050”	1.19 mm
Film Weatherability @ 300 hours exposure *(Test results reported by manufacturer of film)*	D 3361	No cracking or delamination	No cracking or delamination
Tensile Strength	D 1000	400 PSI	2.8 N/mm
Cathodic Disbondment	G 8	< 5.0 mm avg.	< 5.0 mm avg.
Dielectric Strength	D 149	> 12 KV	> 12 KV
Bacterial Resistance	G 22	Excellent	Excellent
Elongation at Break	D 1000	250%	250%
Water Vapor Transmission	E 96	.039 grains/hr/ft2	.026 grains/hr/m2
Peel Adhesion	D 1000	20 lb./inch width	3.5 N/mm

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GUIDE SPECIFICATION:

Handling Materials: Polyguard coatings and liquid adhesives should be hauled and stored in such a manner as to prevent injury to the packages. No packages should be dropped or thrown from trucks. All packages and rolls of wrapping materials should be stored in a dry place, kept from contact with earth, and protected from weather. Materials may be applied between 0 F *(-18 C)* and 120 F *(49 C).* It is recommended that the tape and liquid adhesive be transported in warmed vehicles and stored in heated buildings during cold weather. Although the coating can be utilized at lower temperatures, to maximize the quality application characteristics of the coating system, it is recommended that the coating and liquid adhesive be maintained at a temperature of 45°F *(7°C)* or higher at times of application.

Surface Preparation: As a minimum, pipe should be cleaned of all paint, oil and grease, mill scale, loose rust, welding residue, knurls, frost, dust, moisture, weeds, and other deleterious matter. Where feasible and practical, the surface can be blast cleaned to a commercial finish, as described in NACE No. 3. In cold weather, where safety regulations permit, pipe surface may be warmed to 100°F. *(38°C)* approximately, prior to application of liquid adhesive to accelerate adhesion.

Priming: Polyguard liquid adhesive should be applied at an average rate of 400 sq. ft. per gallon *(10m^2/liter)*. Stir before each use. Apply with brush or roller to clean and dry pipe surface. Do not thin the liquid adhesive.

Wrapping: 600 UV 350 can be applied by spiral wrapping. The release sheet is to be removed immediately prior to the time of application. The bitumen surface of the coating shall be applied to the dry liquid adhesive. In spiral wrapping, a minimum of 1" *(25.4 mm)* lap should be maintained. In areas designated by the owner as critical, the overlap may be increased to 50%. Critical areas would be determined by the severity of conditions in a particular area.

600 UV 350 should be applied with just enough tension to eliminate any air pockets, to conform to the shape of the object being coated and to make complete contact with the covered pipe surface.

If ***600 UV 350*** is required to tie into a coating below ground, clean surface of below ground coating of any deleterious contamination before overlapping. Overlap existing coating a minimum of 2" *(50.8 mm)*. If any questions of compatibility of coatings should occur, contact Polyguard Products. When applied on risers, the coating system should be applied starting at grade or below grade level and continue upward to provide a shingle effect at the overlap area.

PRECAUTIONS:

The liquid adhesive is an industrial coating and would be harmful or fatal if swallowed. It is marked as red label from the standpoint of flash point. Prohibit flames, sparks, welding and smoking during application. Solvents 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 liquid adhesive. In confined areas, use adequate forced ventilation, fresh air masks, explosion proof equipment, and clean clothing.

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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