

## SP-6™ UNBONDED OUTERWRAP

### DESCRIPTION:

**POLYGUARD SP-6™ UNBONDED OUTERWRAP** is an integral part of the **RD-6® Coating System**. It consists of a strong non woven, felt-like polypropylene fabric. Its high tensile strength and low elongation properties provide a slip-plane that results in an outerwrap which mitigates soil stress.



*SP-6™ will reduce the deformation of corrosion coating systems caused by soil stress. It acts as a slip plane to relieve soil stress.*

### SP-6™ UNBONDED OUTERWRAP

Table 1- SP-6 Properties

| Design Feature   | Engineering Purpose   |
|--|---|
| <i>No adhesive on the surfaces of either side of the fabric.</i>       | For years, the pipeline coating industry relied upon bonded outerwraps to protect the anti-corrosion coating layer from mechanical damages. However, permanent adhesion of the outerwrap to the corrosion coating layer is not desirable. The fabric, when unbonded, has the freedom to be moved by the forces of soil stress, independently of the coating over which it has been applied. When the outerwrap is bonded to the coating underneath, the soil stresses can be transferred to the anti-corrosion coating layer causing deformation thus allowing electrolyte to penetrate the coating to the substrate. |
| <i>Fabric permits cathodic protection currents to pass through it.</i> | This porosity of SP-6 maintains the non-shielding characteristics of the RD-6 coating system. Solid film backed corrosion coatings and outerwraps have been proven to shield the passage of the protective currents.  |

This information is based on our best knowledge, but Polyguard & USI cannot guarantee the results obtained.

## **TECHNICAL DATA:**

*Table 2- Typical SP-6 Properties:*

| <b>Property</b>         | <b>ASTM Test Method</b> | <b>Results - English</b> | <b>Results – Metric</b> |
|-------------------------|-------------------------|--------------------------|-------------------------|
| Tensile Strength – Grab | D 4632                  | 102 lbs.                 | 0.45 KN                 |
| Elongation              | D 4632                  | 50%                      | 50%                     |
| Thickness               | D 1000                  | .027"                    | .69mm                   |

## **PRECAUTIONS:**

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.

## **HEALTH AND SAFETY:**

All **Polyguard Products** Safety Data Sheets (SDS) 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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