

ScarGuard[®] E

(Formerly as Thermo-Wrap 24HDD)

Composite Mechanical & Abrasion Protection for Directionally Drilled Pipelines

ScarGuard[®] E is designed to protect mainline and field joint coatings from the mechanical stresses and scarring associated with horizontal directional drilling (HDD), thrust-boring and microtunneling of pipelines. **ScarGuard[®] E** is a composite abrasion resistant overcoat comprised of fiberglass cloth impregnated with high performance grade of resin. This sacrificial outer laminate system protects pre- approved anticorrosion field joint coatings and mainline coatings such as FBE, liquid epoxies, shrink sleeves, and 3LPE/3LPP.

The ScarGuard[®] line of products minimizes the need for costly repairs after pull back, and provides robust protection of the underlying pipeline coating.

Bury, Bore or Drill with Confidence

• Provides unparalleled protection against impact, abrasion, gouge, punctures and tears that may result from directional drilling, rough handling, native backfills or severe in-service conditions

Cure Options for any Application

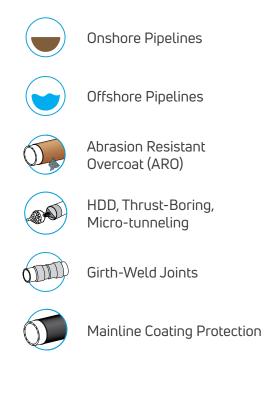
 System full cure time is 12hrs at 40°C. Accelerated curing is possible up to 3 hrs using controlled external heating source set to 93°C

Fast & Controlled Impregnation

 ScarGuard[®] E wrap is impregnated using the resinator machine which assure a uniform distribution of the resin along the fiber vs conventional impregnation method resulting in materials wastage and random saturation.



Applications



ScarGuard[®] E

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Test Method

SSPC-PA-2

SSPC-PA-2

ASTM D3039

ASTM D3039

ASTM D3039

ASTM D4541

ASTM D2240

ASTM D5379

ASTM D5379

ASTM D5868

ASTM F831

At 23°C

At 40°C

ScarGuard[®] E

54.4 mils

27.2 mils

100%

80.03 ksi (552 MPa)

4.26 msi

2.10%

1,547 psi (10 MPa)

90

13,055 psi (90 MPa)

629 ksi (4336 MPa)

3,700 psi (25 MPa)

6.79 µm/m°C

45 min

12 hrs

The product information shown here is intended as a guide for standard products.

Consult your Canusa representative for specific projects or unique applications at info@canusacps.com.



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Quality Management system registered to **ISO 9001**

Since 1967, Canusa-CPS has been a leading developer and manufacturer of specialty pipeline coatings for the sealing and corrosion protection of pipeline joints and other substrates. Canusa-CPS high performance products are manufactured to the highest quality standards and are available in a number of configurations to accommodate many specific project applications.



Non-hazardous, No VOC

 Smooth profile reduces damage during pull through

> Canusa warrants that the product conforms to its chemical and physical description and is appropriate Green the start of the second of the second for the intended use and assume all risks and liabilities in connection therewith. Canusa's liability is stated in the standard terms and conditions of sale. Canusa In the standard terms and conditions of sale. Canusa makes no other warranty either expressed or implied. All information contained in this data sheet is to be used as a guide and is subject to change without notice. This data sheet supersedes all previous data sheets on this product. E&OE

PDS_ScarGuard E_rev010

Corrosion Protection and Sealing

- Simple, cost-effective installation
- Drastically reduced installation time and materials
- Consistency of application, joint after joint

Easy to apply

*All tested at 23°C.

Other Benefits

Properties

Total Thickness

Solid Content

Elongation

Tensile Strength Tensile Modulus

Dolly Pull Off Adhesion

In-Plane Shear Strength

Chord Shear Modulus

Lap Shear (to steel)

Cure Schedule*

Working time

Full Cure Time

CTF

Hardness, Shore D @ 75°F (23°C)

Thickness per Layer