

# Product Data Sheet

FURS® Composites  
Protect (1100 Series)

**FURS Composite Products for Repair & Protection** are designed for the highest level of performance and protection capabilities. The products are fully engineered and manufactured at our facility in the Southeastern US. With over 90 years of continuous product development and manufacturing experience we are proud to offer products that reflect this commitment to quality. *The process of weaving the fiberglass fabric all the way through impregnation with the desired urethane is done in-house, start to finish.*

FURS Composites is committed to ensuring that our customers receive products that meet or exceed the challenges of their application. We look forward to bringing our manufacturing acumen and product development experience to the market for repair & protection of pipelines and infrastructures.



- ⇒ **Impact & abrasion resistance**
- ⇒ **Easy to apply (no messy mixing)**
- ⇒ **Application in most any weather condition, including underwater**
- ⇒ **Contains no solvents**
- ⇒ **Compatible with most all substrates**
- ⇒ **Non toxic**
- ⇒ **Excellent adhesion**
- ⇒ **Long term protection**
- ⇒ **Works up to 250°F temperature**
- ⇒ **Made in the USA**

*The FURS Protect 1100 Series Products are a specialty designed fiberglass reinforced fabric that is pre-impregnated with a water activated resin system. The Products are developed to add protection, hoop strength and structural support to extend the life of structures and piping assets. The FURS Protect 1100 Series Products is applied directly out of the bag and requires no additional mixing. This Wrap can be applied as part of an engineered repair system in accordance with the standards set forth in the ASME PCC2 document.*

<b>FURS Protect (1100 Series)</b>	
Color	gray or white
Hardness (Shore D), ASTM D2240	84+ @ full cure
Application temperature	32°-150°F
Service temperature	250°F
shelf life	2 yrs.
working time @ 70°F	30 min
UV Stable	Yes
Resin type	MCU

<b>FURS Protect (1100 Series)</b>		11 oz. / 4 Inch (psi)
	<i>Standard</i>	
Tensile Warp	ASTM D3039	47,400 psi
Warp Modulus	ASTM D3039M	3.08 Msi
Tensile Fill	ASTM D3039	23,100 psi
Fill Modulus	ASTM D3039M	1.56 Msi
Shear Strength	ASTM D5379	2832 psi
Shear Modulus	ASTM D5379	275 ksi
Lap Shear Strength	ASTM D3165	419 psi
Hardness (Shore D)	ASTM D2240	84+

## **FURS® Repair 1100 Series**

### **Handling & Storage:**

- Store product in a cool dry place in original packaging. Do not store in humid environment or at temperatures below 0°C
- Avoid Excessive heat and do not allow product to freeze.
- Shelf-life: Two (2) years from Date of Manufacture when stored in accordance with manufacturer's Instructions.

### **Applications:**

- **Pipelines**
- **Structural Supports**
- **Abrasion Resistance**
- **Corrosion Prevention**
- **Mechanical Protection**
- **Rehabilitation**

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2 **FURS Composites** is dedicated to manufacturing the highest quality products for the repair and protection of energy & industrial infrastructures. We are committed to ensuring that our customers receive products that meet or exceed their quality requirements.