

## TECHNICAL DATA SHEET

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# T5109

## NEOPRENE LINING

October 1, 2009

**Polycorp T5109 (EPSEAL)** is a black 60 durometer general purpose neoprene lining with soft natural rubber tie gum. Good abrasion, weathering, flame retardant and corrosion resistance properties. Normally used for overlay.

### Application Notes:

- **Skive** – use closed skive construction
- **Repair** – Same
- **Cured Durometer** – Shore A Durometer of top surface: 60 ± 5.
- A heated table to warm the rubber to 110–120°F (43°C) is recommended
- **Spark Test** – Refer to section 13 of the Application Manual

### Adhesive Notes:

See Section 9 of the Polycorp Rubber Lining Application Manual for specific cementing / adhesion notes.

For proper adhesion, temperatures must be over 60°F (15°C) and must not exceed 120°F (49°C).

Use adhesives in well ventilated area and always consult the material safety data sheet for specific precautions.

<u>Coat</u>	<u>Polycorp Adhesive</u>	<u>Approved Equivalent</u>
1 <sup>st</sup> Coat on metal	C-90 Primer	Chemlok 289
2 <sup>nd</sup> Coat on metal	C-91	Chemlok 290
3 <sup>rd</sup> Coat on metal	C-202S	Chemlok 286
4 <sup>th</sup> Coat on lining	C-202S	Chemlok 286

For distributors of Chemlok adhesives, see Section 9 of the Application Manual

### Curing:

Cure time adjustments may be required to compensate for specific conditions. See Section 11 of the Application Manual for detailed instructions.

### Autoclave Method – Up to 1/4” thickness:

1 hour at 260°F/127°C (20 psi).

### Internal Steam Method – Up to 1/2” thickness:

3 hours @ 260°F/127°C (20 psi); or  
6 hours @ 240°F/116°C (10 psi).

### Atmospheric Steam Method – Up to 1/4” thickness:

Minimum 24 hours @ 212°F/100°C.

### Storage:

Store in a cool, dry area.

### Shelf Life:

Stored below 50°F (10°C)	180 days
Stored between 51 and 70°F	60 days
Stored between 71 and 90°F	30 days
Do not store above 90°F (32°C)	

Storage, handling and application methods must conform to the Polycorp Rubber Lining Application Manual

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### Typical Properties:

<u>Property</u>	<u>Value</u>	<u>ASTM Test Method</u>
Hardness (Face)	60 A $\pm$ 5	D2240
Tensile Strength (min, psi)	2000	D412
Elongation at Break (min, %)	300	D412
Specific Gravity	1.42	D927
Adhesion to Metal (min, lbs)	25	D429
Maximum Operating Temperature for Optimum Service Life	95°C/203°F	N/A

All physical property values developed and measured using a press-cured sample sheet prepared in accordance with ASTM D3182.

### PRECAUTIONS:

- Calendered stock typically has nerve. Warm stock to 100°F/38°C to 120°F/49°C before applying.
- Crowd rather than stretch during application.
- Ensure uniform heat distribution throughout the vessel during cure