

# T5109

## NEOPRENE LINING

May 2014

**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. Operating temperature range is from - 13°F (-25°C) to 203°F (95°C)

### APPLICATION NOTES:

- **Skive** – use closed skive construction
- **Repair** – Same, refer to section 11 of the application manual
- **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 6 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.

Coat	Polycorp Adhesive	Approved Equivalent
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

### CURING:

Cure time adjustments may be required to compensate for specific conditions. See Section 10 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 and 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.

## TYPICAL PROPERTIES:

Property	Value	ASTM Test Method
Hardness (Face)	60 A ± 5	D2240
Tensile Strength (min, psi)	2000	D412
Elongation at Break (min, %)	300	D412
Specific Gravity	1.42	D297
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