

TECHNICAL DATA SHEET

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T1003

SOFT NATURAL RUBBER LININGS

October 1, 2009

Polycorp T1003 (*EPSEAL*) is a black, 55A durometer natural rubber with excellent abrasion resistance properties. Normally used for overlays.

Application Notes:

- **Skive** – use closed skive construction
- **Repair** – Same or 2019 chemical cure.
- **Cured Durometer** – Shore A Durometer of top surface: 55 ± 5.
- **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 st Coat on Metal	C-90 Primer	Chemlok 289
2 nd Coat on Metal	C-91 Intermediate	Chemlok 290
3 rd Coat on Metal	C-210S Tack	Chemlok 286
4 th Coat on lining	C-210S Tack	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 @ 260°F/127°C (20 psi).
 ¼” to 3/8” thick: 3 hours @ 260°F (20 psi)

Internal Steam Method – Up to 1/4” thickness:

4 hours @ 260°F/127°C (20 psi) or 7 hours at 240°F/116°C (10 psi).

Atmospheric Steam Method – Up to ¼”

Minimum 24 hours at 212°F

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)	55 A \pm 5	D2240
Tensile Strength (min, psi)	2500	D412
Elongation at Break (min, %)	450	D412
Specific Gravity	1.08	D927
Adhesion to Metal (min, lbs)	25	D429
Maximum Operating Temperature for Optimum Service Life	65°C/150°F	N/A

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