

# 1001

## TRIFLEX™ 3-LAYER COMBINATIONS

March 2015

**Polycorp 1001** is 55A durometer black chemical cure “Triflex™” Soft-Hard Soft natural rubber lining. It provides a combination of excellent abrasion and chemical resistance. Lining is flexible to withstand expansion and contraction due to rapid changes in temperature. It is FDA compliant as per 21CFR177.2600. For FDA service use activator C-600 activator, for non-FDA service use activator C-700. Operating temperature range is from 50°F (10°C) to 160°F (71°C).

**APPLICATION NOTES:**

- **Skive** – use closed skive construction
- **Repair** – same. Refer to section 11 of application manual
- **Cured Durometer** – Shore A Durometer of top surface: 55 ± 10.
- **Special Treatment After Application** – After application, brush the rubber surface with three (3) separate coats of C-600 or C-700 activator. Allow to dry for 30 minutes between each coat.
- **Spark Test** – Refer to section 13 of the Application Manual
- Do not use in transport equipment

**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.

**CURING:**

Cure time adjustments may be required to compensate for specific conditions. See Section 10 of the Application Manual for detailed instructions.

**Ambient Cure** – The chemical cure lining will vulcanize in about 2-3 weeks at 85°F. If service temperature is above 150°F (127°C), the lining could be immediately put in service.

**Atmospheric Steam Assist** – Introduce steam sufficient to ensure contact with all surfaces. Approximately 4-6 hours will be required to cure lining. More time may be necessary in a large tank or if heat losses are large.

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 Intermediate	Chemlok 290
3 <sup>rd</sup> Coat on Metal	C-202S Tack	Chemlok 286
4 <sup>th</sup> Coat on lining	C-202S Tack	Chemlok 286

## STORAGE:

Store in a cool, dry area.

Shelf Life	
Stored below 50°F (10°C)	180 days
Stored between 51 and 70°F	90 days
Stored between 71 and 90°F	45 days
Do not store above 90°F (32°C)	

Depending on storage conditions it may be possible to use rubber linings beyond the recommended shelf life however additional testing must be completed. Please contact Polycorp for recommended test procedures. A sample of the rubber lining can also be sent back to Polycorp for verification.

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

## TYPICAL PROPERTIES:

Property	Value	ASTM Test Method
Hardness (Face) (points)	50 A ± 10	D2240
Tensile Strength (min, psi)	N/A	D412
Elongation at Break (min, %)	N/A	D412
Specific Gravity	1.357	D297
Adhesion to Metal (min, lbf/in)	25	D429
Operating Temperature Range for Optimum Service Life	50°F (10°C) to 160°F (71°C)	N/A

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