

2000

SOFT NATURAL RUBBER LINING

February 2020

Polycorp 2000 is a tan, **strained** 35A durometer pure gum natural rubber lining “Acid seal MA” with or without sticky back tie gum. Provides excellent chemical, abrasion and tear resistance. Ideal for HCL applications including large storage tanks, railcars and truck tanks. It is FDA compliant as per 21CFR177.2600. Operating temperature range is from -40°F (-40°C) to 160°F (71°C).

APPLICATION NOTES:

- **Skive** – use open skive construction
- **Repair** – Same or 2042 chemical cure. Refer to section 11 of application manual.
- **Cured Durometer** – Shore A Durometer of top surface: 35 ± 5.
- **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.

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:
1½ hour @ 260°F/127°C (20 psi).

Internal Steam Method – Up to 1/4” thickness: 2 hours @ 260°F/127°C (20 psi) or 4 hours at 240°F/116°C (10 psi).

Exhaust (Atmospheric) Steam Method – Up to 1/4” thickness: Minimum 20 hours @ 212°F/100°C.

| Coat | Polycorp Adhesive | Approved Equivalent |
|--------------------------------|-----------------------------|-----------------------------|
| 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 or Solvent wipe | C-210S Tack or Solvent wipe |

STORAGE:

Store in a cool and 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) | 35 A ± 5 | D2240 |
| Tensile Strength (min, psi) | 2500 | D412 |
| Elongation at Break (min, %) | 500 | D412 |
| Specific Gravity | 0.99 | D297 |
| Adhesion to Metal (min, lbs) | 25 | D429 |

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