

# 2033

## SOFT NATURAL RUBBER LINING

March 2015

**Polycorp 2033** is a 50 A durometer natural rubber compound which combines excellent physical properties and abrasion resistance along with ozone, oxygen and weather resistance. Operating temperature range is from - 40°F (-40°C) to 160°F (71°C).

### APPLICATION NOTES:

- **Skive** – use closed skive construction
- **Repair** – Same or 2019 chemical cure. Refer to section 11 of application manual.
- **Cured Durometer** – Shore A Durometer of top surface: 50 ± 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:

1 hour @ 260°F/127°C (20 psi).

#### Autoclave Method - 1/2” thickness:

1 1/2 hours @ 260°F/127°C (20 psi).

#### Internal Steam Method – Up to 1/4” 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.

| 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 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     | 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)                                      | 50 A ± 5                       | D2240            |
| Tensile Strength (min, psi)                          | 2500                           | D412             |
| Elongation at Break (min, %)                         | 450                            | D412             |
| Specific Gravity                                     | 1.06                           | D297             |
| Adhesion to Metal (min, lbs)                         | 25                             | D429             |
| Operating Temperature Range for Optimum Service Life | - 40°F (-40°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.