



# PU-Flex<sup>TM</sup>

## Polyurea

*100% Solids – Zero VOCs*

Palmer Contracting  
105 N. 1st Street  
#1710  
San Jose  
CA 95113

**PU Flex:** a two-component, rapid curing, polyurea designed for industrial lining in harsh conditions. Its solvent free flexible design allows for 10 - 15 % movement. It can be used in temperatures between -40 °F and 120 °F (-40 °C and 49 °C).

Formulated and developed to be resistant to thermal and mechanical shock and displays excellent chemical resistance.

### Uses and Applications:

- Used as industrial liner and joint filler
- Ideal for use in high chemical environments
- Excellent for use in areas where temperatures are volatile and extremely low

### Advantages & Features:

- Material may be opened to service or foot and light vehicular traffic in 90 minutes at 75 °F (24 °C)
- Self-leveling, low viscosity system
- Wide application and service temperature range, including freezer applications
- Acceptable for use in USDA inspected facilities

*Formulated and developed to be resistant to thermal and mechanical shock and displays excellent chemical resistance.*

### *PU-Flex Cure Schedule:*

| Material Temp °F (°C) | Working Time (Min) | Trim/Shave Time (hr) | Full Cure Time (hr) |
|-----------------------|--------------------|----------------------|---------------------|
| 0<br>(-18)            | 5                  | 6                    | 48                  |
| 75<br>(24)            | 0.5                | 0.5                  | 24                  |
| 120<br>(49)           | 0.25               | 0.33                 | 12                  |

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**Color:**

Part A (Resin) Amber: Part B (Hardener) Gray,

**Mixed Ratio:** 1:1 by volume, Mixed Color - Concrete Gray.

**Storage & Shelf Life:** 18 months when stored in unopened containers in dry conditions. Store between 60 °F and 90 °F (16 °C and 32 °C).

***PU-Flex Technical Specifications:***

| Property                       | Cure Time | ASTM STD | Units        | Sample Temp<br>76 °F (24 °C)   |
|--------------------------------|-----------|----------|--------------|--------------------------------|
| Gel Time<br>(60g Mass)         |           | C881     | sec          | 30                             |
| Tack Free Time<br>(30 Mil DFT) |           | D2377    | min          | 6-10                           |
| Viscosity                      |           | D2196    | cP           | Part A: 2,000<br>Part B: 1,950 |
| Tensile Strength               | 7 Day     | D638     | Psi<br>(MPa) | 5,143<br>(35.5)                |
| Tensile Elongation             | 7 Day     | D638     | %            | 305                            |
| Bond Strength                  | 2 Day     | C882     | PSI<br>(MPa) | 400<br>(2.8)                   |
| Adhesion to<br>Concrete        |           | D4541    | Psi<br>(MPa) | 285<br>(2)                     |

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