

Developed by Soremag, **SoreDrain™ PU-80/90** is a hot-cast polyurethane engineered to withstand the harshest outdoor conditions found in road infrastructure. At 80 to 90 Shore A, it combines toughness, flexibility and environmental durability.

KEY STRENGTHS

- › **Environmental resistance** — UV, moisture, standing water and road contaminants (salt, oil, gasoline)
- › **Mechanical toughness** — strong abrasion, tear and compression resistance
- › **Chemical and thermal stability** — suited to extreme outdoor environments
- › **Easy processing** — low viscosity and good working time
- › **Adjustable hardness** — between 80 and 90 Shore A to match project requirements
- › **Outdoor durability** — built for exposed road infrastructure

TECHNICAL DATA — TYPICAL VALUES

PROPERTY	VALUE (METRIC)	IMPERIAL EQUIVALENT
Hardness	80 – 90 Shore A	—
Density	1.07 – 1.11 g/cm³	0.0387 – 0.0401 lb/in³
Tensile strength	34 – 38 MPa	≈ 4,930 – 5,510 psi
Elongation at break	430 – 490 %	—
Tear resistance (Die C)	92 – 105 kN/m	≈ 525 – 600 pli (lbf/in)
Modulus 100% / 300%	5.5 MPa / 10 – 15 MPa	≈ 800 psi / 1,450 – 2,175 psi
Compression set (70°C, 22 h)	25 – 30 %	70°C = 158°F
Resilience (Bashore)	42 – 58 %	—
Brittleness temperature	< -63°C	< -81°F

Processing

- › **Viscosity** — low, for smooth casting
- › **Working time** — about 10 to 14 minutes
- › **Recommended cure** — 1 h at 100°C (212°F) + 16 h at 70°C (158°F), or 6 h at 100°C

Typical applications

- › Bridge drainage troughs
- › Exposed catch basins or collectors
- › Cast parts exposed to aggressive outdoor conditions

STANDARD SOREMAG FORMULATION — OTHER VERSIONS AVAILABLE ON REQUEST

Non-contractual document — indicative values. Typical values may vary with formulation and processing conditions. Contact Soremag for a recommendation suited to your application.