

Donseal/Flexseal PU Comparison Table

Category	Donseal PU440 Flexseal PU440/425	Donseal PU440 Ultra	Donseal Construction PU
Primary Use	General construction & expansion joints	High-movement, dynamic joints	General construction, windows, doors, roofing & trim
Substrates	Concrete, wood, marble, stone, aluminum, glass	Concrete, aluminum, glass, steel, ceramic, gypsum boards	Concrete, wood, marble, aluminum, steel, ceramic, gypsum boards, glass
Key Selling Point	Durable class 25 sealant for standard construction joints	High-movement class 35 sealant with enhanced elasticity	Versatile construction sealant for installation & detailing
Key Advantages	Reliable adhesion, weather resistance, long-term durability	Enhanced flexibility, reduced joint stress, dependable sealing in dynamic joints	High tear resistance, durable elastic seal, reliable performance in exposed construction joints
Tooling Characteristics	Smooth tooling for vertical & horizontal construction joints	Controlled tooling suitable for high-movement, low-modulus joints	Easy tooling and finishing for general construction detailing
Packaging	600 ml sausages & 300 ml aluminum cartridges	600 ml sausages & 300 ml aluminum cartridges	300 ml plastic cartridges
Modulus	High-modulus	Low-modulus	High-modulus
Movement Capability	±25%	±35%	±25%
Elongation at Break	≥400%	≥500%	≥380%
Tensile Strength	≥1.7 MPa	≥1.8 MPa	≥1.8 MPa (260 psi)
Tear Strength	7 kN/m	7 kN/m	8 kN/m (45 pli)
Curing Rate	~2.5 mm/day	~2.5 mm/day	~2.5 mm/day
Non-Sag	Yes	Yes	Yes
Adhesion (ASTM C794)	Pass – no adhesion loss	Pass – no adhesion loss	Pass – no adhesion loss
Weathering (ASTM C793)	No cracking	No cracking	No cracking
Heat Aging	Pass @ 70°C	Pass @ 70°C	Pass @ 70°C
Immersion Resistance (with primer)	Class 2	Class 2	Class 2
Temperature Resistance	–20°C to +70°C	–20°C to +70°C	–20°C to +70°C
Application Temperature	5–50°C	5–50°C	5–70°C
ASTM C920 Classification	Type S, Grade NS, Class 25	Type S, Grade NS, Class 35	Type S, Grade NS, Class 25
VOC	≤10 g/L	≤10 g/L	≤10 g/L
LEED Compliance	Yes	Yes	Yes