

ZRETE Silane-Modified Polyether (SMP) Container Sealant

The ZRETE Silane-Modified Polyether (SMP) Sealant is a one-component, high-performance elastic sealing material specially developed for container manufacturing and maintenance. It offers superior adhesion, reliable waterproofing, UV resistance, and long-term flexibility under harsh environmental conditions. Ideal for marine, industrial, and transport applications.

Key Benefits:

- Excellent elasticity and long-lasting recovery performance
- Strong adhesion to metals, coated steel, and glass
- Resistant to UV, water immersion, and temperatures from -20°C to 90°C
- Durable sealing performance for containers and marine equipment

Technical Parameters:

Test Item	Performance Index
Sagging at 50°C (mm)	Vertical ≤ 3; Horizontal: No deformation
Tack-Free Time (h)	≤ 3
Curing Time (d)	≤ 7
Extrudability (mL/min)	≥ 80
Elastic Recovery (%)	≥ 60
Mass Loss Rate (%)	≤ 10
Adhesion Stress (N/mm)	≥ 1.0
Residual Stress after Fracture (%)	≤ 20
Low-Temperature Flexibility (°C)	-20
Heat Resistance (°C)	90
Cohesive Properties (Glass)	No failure
Water Immersion Adhesion	No failure

Applications:

- Container sealing and maintenance (cargo container joints)
- Marine and shipping equipment sealing
- Industrial facilities requiring durable waterproof sealant
- Construction joints exposed to outdoor weather and UV

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