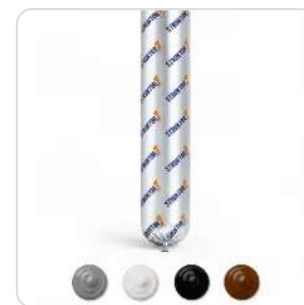


ONE-COMPONENT POLYURETHANE SEALANT AND ADHESIVE

STRUKTORR PRO PU40+

Low-modulus, professional expansion-joint sealant with bubble-free cure, engineered for high temperature and humidity. Cures by atmospheric moisture to a durable, elastic seal with **50% joint-movement accommodation** and excellent adhesion on glass, aluminium, steel, concrete, natural stone such as marble and granite, engineered stone, polycarbonate.



DESCRIPTION

Struktur Pro PU40+ is an adhesive and low-modulus expansion-joint sealant formulated to ensure bubble-free cure even at very high temperature and humidity. Its excellent thixotropy allows use in very large expansion joints. It cures by reaction with atmospheric humidity, delivering a 50% joint-movement accommodation factor and excellent adhesion on substrates that are traditionally problematic for PU sealants – glass, aluminium, steel, polycarbonate. Extrusion rate and tooling remain consistent across a wide range of temperature and humidity conditions.

RECOMMENDED FOR

Sealing joints in:

- In-situ and precast concrete (panels)
- Industrial floors
- Water tanks and swimming pools
- Metal frames, aluminium windows and panels
- Irrigation channels
- Glass, granite and marble

FEATURES & BENEFITS

- No bubbling or swelling on cure in difficult climates
- Excellent thixotropy and tooling
- Adhesion on almost any surface, often without primer
- Low modulus – 50% movement accommodation
- Microorganism and fungus resistant
- Heat resistant >60°C; stays elastic down to -40°C

COMPLIANCE & STANDARDS

ISO 11600 · Type F · Class 25LM

DIN 18540-F

ASTM C920 · Type II Class A

US Fed. Spec. TT-S-00230C

CE · EN 15651-1:2012 & EN 15651-4:2012

APPLICATION PROCEDURE

1. Clean the joint thoroughly – no oil, grease, wax or silicone remains.
2. Primer is not required for most applications. On very porous substrates, seal the bond-area surfaces to prevent air bubbles being drawn into the uncured sealant as temperature rises. Recommended primer: MICROPRIMER-PU.
3. Fit backing material (open-cell polyurethane or closed-cell polyethylene backing rod) to set the correct width-to-depth ratio. Do not puncture the outer skin of closed-cell rod.
4. Load the unit into the applicator gun, cut the nozzle to the required bead size, and extrude into the joint without trapping air.
5. Tool the sealant immediately after application. Recommended width-to-depth ratio 2:1, minimum depth 10 mm.

CONSUMPTION

Linear metres of joint per 600 ml unit.

Width \ Depth	10 mm	15 mm
10 mm	6.0	—
15 mm	4.0	2.7
20 mm	3.0	2.0
25 mm	2.4	1.6

PACKAGING & STORAGE

Packaging	600 ml sausage
Colours	White, grey, black (consult us for others)
Shelf life	Best performance within 18 months of production, in the closed, correctly stored original packaging.
Storage	Dry conditions, +5°C to +25°C. Once opened, use as soon as possible.

Limitations. Not for direct application on unsound substrates. Seal highly porous or dusty surfaces first. For colour retention on UV-exposed joints, overpaint with quality acrylic paint.

TECHNICAL SPECIFICATIONS

Property	Value	Test method
Specific weight @ 20°C	1.49 g/cm ³	ASTM D1475 / DIN 53217 / ISO 2811
Tack-free time @ 25°C, 55% RH	2.5–3.5 h	—
Cure rate	2–3 mm/day	—
Service temperature	–40 to +80 °C	—
Hardness	≈ 27 Shore A	ASTM D2240 / DIN 53505 / ISO 868
Modulus at 100% elongation	0.3 N/mm ²	ASTM D412 / EN ISO 527-3
Elongation at break	>700%	ASTM D412 / EN ISO 527-3
Resilience	>90%	DIN 52458
Adhesion to concrete	>20 kg/cm ² (>2 N/mm ²)	ASTM D4541
QUV accelerated weathering	Passed (2000 h)	ASTM G53
Thermal resistance (100 d, 80°C)	Passed	EOTA TR011
Hydrolysis (8% KOH, 15 d @ 50°C)	No elastomeric property change	—
Hydrolysis (H ₂ O, 30-day 60–100°C)	No elastomeric property change	—
Acid resistance (HCl sc-camel-p-h=2, 10 d)	No elastomeric property change	—
Toxicity	No restrictions after full cure	—

The information above reflects our current knowledge and is given in good faith. None of our instructions or specifications relieves the user of the duty to verify the product's suitability for the intended use by adequate testing. However, because we have no control over where and how products are used or applied, we can not accept any liability, arising from the use of the products. Struktor Pro Bulgaria Ltd. reserves the right to change product properties at any time. Always refer to the current version of this Technical Data Sheet.