KREVO Seal PU-GG

High-performance polyurethane civil engineering joint sealant | One component | Elastic, non-sag

PRODUCT DESCRIPTION

KREVO Seal PU-GG is a one-component, moisture-curing, elastic polyurethane sealant intended for movement and connection joints in heavy-duty civil and industrial environments. The system combines joint movement accommodation with mechanical durability and resistance to selected service chemicals. It is suitable for horizontal and vertical joint sealing when substrates and joint geometry are properly prepared.

ADVANTAGES

- Elastic joint sealing with a nominal movement capability of ±35%.
- Good adhesion to prepared concrete, masonry and a range of construction substrates.
- Resistant to water, seawater and certain diluted chemicals, diesel and jet fuel.
- Non-sag, single-component material for floor, vertical and overhead joints.
- Solvent-free, low-emission formulation intended for demanding service conditions.

TYPICAL USES

Industrial and warehouse floors • Traffic and pedestrian areas • Parking decks • Production areas • Civil engineering movement and connection joints • Sewage treatment plants • Tunnels • Vertical and overhead construction joints.

PRODUCT INFORMATION

PARAMETER	SPECIFICATION
Material type	One-component, moisture-curing, elastic polyurethane sealant
Appearance / colour	Concrete grey; additional colours subject to availability
Density	1.35 kg/L
Packaging	600 mL foil pack; 20 packs per box
Service temperature	-40 °C to +70 °C
Application surfaces	Prepared concrete, masonry and compatible construction materials
Storage	Original sealed packs; dry, shaded, +5 °C to +25 °C
Shelf life	15 months when stored as specified

TYPICAL TECHNICAL PROPERTIES

PROPERTY / TEST METHOD	TYPICAL VALUE
Shore A hardness | ISO 868	37 (28 days)
Secant tensile modulus | ISO 8339	~0.60 MPa at +23 °C; ~1.10 MPa at -20 °C
Elongation at break | ISO 37	600%
Elastic recovery | ISO 7389	90%
Tear propagation resistance | ISO 34	8 N/mm
Movement capability | ASTM C719	±35%

Application & System Data

KREVO Seal PU-GG | Joint dimensions, service limits, consumption and substrate requirements

APPLICATION PROPERTIES

PARAMETER	CONDITION	TYPICAL VALUE	TEST / NOTE
Air / substrate temp.	During application	+5 to +40 °C	Above dew point +3 °C
Skinning time	+23 °C / 50% RH	~60 minutes	CQP 019-1
Tooling time	+23 °C / 50% RH	~50 minutes	CQP 019-2
Curing rate	+23 °C / 50% RH	~3.5 mm / 24 h	CQP 049-2
Sag flow	20 mm profile / 50 °C	0 mm	ISO 7390

Application and curing figures are approximate and depend on air temperature, relative humidity, joint section and substrate condition. The joint must be sized to accommodate expected movement before work starts.

TYPICAL JOINT DESIGN

JOINT WIDTH	RECOMMENDED SEALANT DEPTH
10 mm	10 mm
15 mm	12 mm
20 mm	16 mm
30 mm	24 mm
50 mm	35 mm

SUBSTRATE PREPARATION

Joint faces must be structurally sound, clean, dry and free of loose particles, laitance, dust, oil, grease, coatings and contaminants. Remove incompatible existing sealants. Prepare porous and non-porous substrates by an appropriate mechanical cleaning method, and check adhesion on a representative trial area.

CONSUMPTION & BACKING MATERIAL

Install a closed-cell polyethylene backing rod at the specified depth to control sealant geometry and prevent three-sided adhesion. The table below gives approximate linear coverage per 600 mL foil pack; allow separately for wastage and actual joint tolerances.

JOINT WIDTH × DEPTH	APPROXIMATE LENGTH PER 600 mL
10 × 10 mm	6.0 m
15 × 12 mm	3.3 m
20 × 16 mm	1.9 m
30 × 24 mm	0.8 m
50 × 35 mm	0.3 m

Design joints for the full anticipated movement. The typical 10-50 mm width range and illustrative depths are not a substitute for project-specific movement calculations.

PRIMING AND SITE CONDITIONS

For critical joints, confirm substrate compatibility and choose KREVO Prime EP surface activator. Prime prepared porous concrete and masonry where specified; clean and pretreat metals or plastics as required. Avoid condensation: the joint surface must be at least 3 °C above dew point.

Installation & Product Support

KREVO Seal PU-GG | Placement procedure, limitations, safety and global contacts

APPLICATION PROCEDURE

- Verify joint width, movement demand, specified depth, substrate condition and environmental suitability.
- Remove contamination and dust, prepare joint faces, and apply any required primer or activator.
- Insert a compatible closed-cell backing rod to the prescribed depth; mask joint edges where a neat line is required.
- Extrude KREVO Seal PU-GG continuously into the joint, ensuring intimate contact with both sidewalls and no trapped air.

TOOLING, CURING & CLEAN-UP

- Firmly tool the sealant against the sidewalls within its working / skinning period. Remove masking tape before skin formation.
- Use only a compatible, solvent-free tooling aid where required; do not thin the sealant with solvents.
- Protect the joint from traffic, immersion, chemicals and mechanical disturbance until adequately cured.
- Clean tools while uncured with an approved cleaner; fully cured material must be removed mechanically.

LIMITATIONS & SERVICE NOTES

- Do not apply to standing water, unsound joint edges or surfaces subject to condensation during placement.
- Avoid bitumen, natural rubber, EPDM and substrates that may release oils, plasticisers or solvents without prior compatibility testing.
- Do not use in or around swimming pools without specific technical approval; avoid alcohol contact with uncured material.
- Paint compatibility should be confirmed by trial; rigid coatings may crack as the joint moves.
- Chemical resistance is exposure-specific; prolonged aggressive chemical service requires project-specific verification.

HEALTH, SAFETY & ENVIRONMENT

For professional use by trained personnel. Read the current Safety Data Sheet before handling. Wear suitable protective gloves, eye protection and workwear. Ensure adequate ventilation, avoid skin contact, and prevent uncured materials or cleaning residues entering drains. Dispose of used packs and wastes according to local requirements.

QUALITY & PRODUCT INFORMATION

The stated properties describe the intended technical performance of the KREVO Seal PU-GG system. Selection and use must consider substrate type, joint dimensions, movement demand, service exposure and curing conditions. Confirm KREVO-specific test data and compliance status before issuing any third-party certification claim or project performance guarantee.

KREVO | GLOBAL CONTACTS

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