KREVO Seal JointBand

High-performance flexible joint sealing system | FPO waterproofing band | Epoxy-bonded installation

PRODUCT DESCRIPTION

KREVO Seal JointBand is a flexible sealing system for construction joints, expansion and movement joints, connection details and cracks. The system employs a modified flexible polyolefin (FPO) waterproofing band bonded to sound substrates with a KREVO Repair EP-Mortar. The central unbonded zone accommodates differential movement while the bonded edges form a watertight barrier.

ADVANTAGES

- Flexible, crack-bridging sealing system for difficult joints and details.
- Designed to accommodate movement in one or more directions.
- Hot-air-weldable band for joined lengths and complex detailing.
- UV- and ageing-resistant membrane concept with a broad service-temperature range.
- Compatible adhesive options can be selected for project and service conditions.

TYPICAL USES

Expansion and construction joints • Movement cracks • Pipe penetrations and connection joints • Water-retaining structures • Basements and tunnels • Culverts • Sewage and water-treatment structures • Swimming pools.

PRODUCT INFORMATION

PARAMETER	SPECIFICATION
System type	Flexible FPO joint band bonded using KREVO Repair EP-Mortar
Band material	Modified flexible polyolefin (FPO)
Band grades	1 mm and 2 mm nominal thickness options
Band configurations	Plain band / optional removable central masking strip
Joint joining	Hot-air welded tape overlaps and connections
Primary attachment	Epoxy-bonded margins; centre zone left free to deform
Resistance profile	Selected groundwater, soil, sewage and seawater exposures; verify service
Supply format	Band rolls and adhesive packs: verify current widths and pack sizes

TECHNICAL PERFORMANCE SPECIFICATION

PROPERTY / TEST METHOD	TYPICAL VALUE
Elongation at max. tensile force | EN 12311-2	≥ 650% (design criterion)
Tape thickness - variant A	1.0 mm
Tape thickness - variant B	2.0 mm
Permanent extension - 1 mm band	< 10% of unbonded band width
Permanent extension - 2 mm band	< 25% of unbonded band width
Service temperature range	-30 °C to +40 °C
Chemical exposure - representative	Natural ground/soil water, seawater, salts, sewage (assess)
UV and ageing resistance	Suitable target for permanently exposed detailing
Movement performance	Dependent on width, unbonded span and selected band grade

Application & System Data

KREVO Seal JointBand | Operating range, movement design, substrate preparation and sealing details

APPLICATION PROPERTIES

PARAMETER	SPECIFICATION	PARAMETER	SPECIFICATION
Ambient application	+5 °C to +40 °C	Substrate application	+5 °C to +30 °C
Service conditions	-30 °C to +40 °C	Tape thickness	1.0 or 2.0 mm
Adhesive	Compatible two-part epoxy	Tape joining	Controlled hot-air welding
Concrete surface	Sound, open-textured	Adhesive cure / pot life	Per adhesive data sheet
Expected movement	Engineering design required	Water pressure support	Assess both directions

TYPICAL JOINT SEALING SYSTEM

STAGE	MATERIAL / METHOD
1 | Plan joint	Determine movement, water pressure, band thickness and free zone.
2 | Prepare substrate	Remove laitance and contaminants; produce a gripping surface.
3 | Weld connections	Hot-air weld band overlaps before final bonding as specified.
4 | Apply adhesive	Mix compatible epoxy; coat both clean bonding flanks.
5 | Bond band	Press band margins into wet epoxy, leave centre free; cap bonded edges.

SUBSTRATE PREPARATION

Concrete and mortar must be structurally sound, free of laitance, friable material, oil, grease and dust. Prepare the bonding flanks mechanically by abrasive blasting, planing or scarifying to achieve an open-textured gripping surface. Remove all debris by vacuum and correct defective areas before bonding.

JOINT CONFIGURATION & MOVEMENT

Keep the central deformation zone of the band unbonded across the joint or crack. Design its free width to accommodate the calculated movement; excessive permanent extension will compromise serviceability. For sections subject to water pressure, provide suitable mechanical support of the free band span.

DESIGN CONTROL	REQUIRED CHECK
1 mm band movement	Limit permanent movement to < 10% of unbonded width.
2 mm band movement	Limit permanent movement to < 25% of unbonded width.
Pressure / mechanical exposure	Provide designed band support and protection as required.

Check compatibility between band, epoxy adhesive and substrate, and establish the expected positive or negative water pressure. Use a project-specific detailing method for joints, corners, connections and terminations.

WATER PRESSURE & BAND SUPPORT

Where positive water pressure acts on the exposed band, support the joint using an approved compressible backing material or joint sealant. Under negative pressure, a mechanical retaining plate fixed on one side may be necessary. Protect the free band against mechanical damage.

Installation & Product Support

KREVO Seal JointBand | Epoxy bonding, hot-air joining, movement precautions and global contacts

GENERAL INSTALLATION PROCEDURE

- Confirm joint movement, design width, water pressure and approved adhesive compatibility.
- Prepare both bonding flanks to a clean, sound, dry or adhesive-approved condition.
- Hot-air weld band connections and overlaps using the approved welding procedure.
- Mix the selected two-part epoxy adhesive as specified and spread on both sides of the joint.

BAND PLACEMENT & SEALING

- Centre the band over the joint, keeping the movement zone free of bonded epoxy.
- Roll the band edges firmly into the wet epoxy to expel trapped air and ensure contact.
- Apply a compatible adhesive cover layer over the bonded margins without blocking movement.
- If using a removable centre-strip band, take off the strip while the adhesive remains wet.

LIMITATIONS & SERVICE NOTES

- Never bond the entire tape width across an active movement joint.
- Do not assume compatibility with other waterproofing membranes for hot-air welding.
- Guard against puncture, impact, tearing and excessive stretching of the free section.
- Select any negative-pressure backing/retaining system by engineering assessment.
- Potable-water contact, chemical exposure and test certifications require project-specific verification.

HEALTH, SAFETY & ENVIRONMENT

Installation is for trained personnel only. Review the current safety data sheets for the epoxy adhesive and all installation materials. Use chemical-resistant gloves, eye protection, protective clothing and adequate ventilation. Follow hot-air welding safety procedures and dispose of adhesive residues and packaging in line with local requirements.

QUALITY & PRODUCT INFORMATION

System integrity depends on tape type, adhesive selection, correct substrate preparation, weld quality, unbonded width, water-pressure support and workmanship. The values shown are design and product-qualification criteria; confirm actual KREVO system test results, supplied grades and any approval for drinking-water contact before certification or project issue.

KREVO | GLOBAL CONTACTS

ENGLAND	UNITED STATES	CHINA
10 Shipley Avenue, Fenham Newcastle upon Tyne England NE4 9RA +44 7436 650806 info@krevo.uk krevo.uk	9209 S. Aeva Avenue Evergreen Park, IL 60805 +1 (773) 996-0846 info@krevo.us krevo.us	Office 235, 4th Floor No. 5 Inner China +86 139 5536 3625 krevo.cn