

BluSeal JPress

CONCRETE JOINT SEALING PROFILE

BluSeal JPress is a high performance elastomeric profile, suitable for sealing concrete joints.

BluSeal JPress concrete joint sealant is a Santoprene™ thermoplastic profile, which is UV and chemically resistant. The product is designed for civil engineering applications where a fast and reliable seal can be placed under challenging application conditions.

Application Advantages

- Suitable for various joint widths
- Easy application in all site conditions
- Reduced packaging waste
- No clean-up chemicals required

Lifecycle Advantages

- 100% recyclable
- Excellent flex fatigue resistance
- UV and chemical resistant
- Long-term pull-out resistance

About the Product

BluSeal JPress is a Santoprene™ thermoplastic strip profile designed to be easily installed in concrete joints for the purpose of long-term sealing. The product allows easy installation without the need for on-site priming and joint preparation. The easy push-in system relies upon compression to create a friction seal which will allow greater movement capacity than traditional liquid applied sealants. The push-in system is also more considerate to the environment by eliminating the need for disposal of excess chemicals from packaging and clean up activities related to traditional liquid sealants. BluSeal JPress will create an high movement capable joint seal for fixing between concrete elements where differential deflections are expected. Due to its excellent friction-bonding capabilities, even in damp conditions, BluSeal JPress is particularly suitable for outdoor and underground civil engineering applications.

Application Solutions

- Instant joint sealing
- Construction joint sealing
- Architectural fixing
- Damp area sealing
- High traffic volume sealing
- Chemical resistant sealing
- Sealing concrete sewer structures
- Fuel bunds and structures

Project Specification Clause

PRESS-IN CONCRETE JOINT SEAL - The joint seal used for this project shall be a Santoprene™ thermoplastic profile fabricated in accordance with the cross sections detailed below. It shall be preformed and tested in accordance with the technical data detailed in this specification. The product shall be manufactured from virgin materials and confirmed to provide adequate joint sealing properties in the proposed environment. In areas of high traffic loading or potential high movements, the product shall be combined with a single component, silane-modified, thixotropic paste to provide additional locking to the concrete surface. BluSeal JPress, preformed sealing profiles, and BluSeal AD50, thixotropic sealing paste manufactured by Bluey Technologies, or similarly performing products, may be accepted for use on this project.

Project Examples

Road pavements and freeways, airport pavement sealing, expedient repairs and maintenance, carpark construction and repair, tunnels and underground environments, jetty construction and repair, water and wastewater structures, bridge repair, building repairs, dam construction and repair, concrete structures, sea wall repair and maintenance.

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Application Specification

CONCRETE PREPARATION

BluSeal JPress profiles are installed by means of hammer and wedge or mechanically with a pneumatic chipping hammer. Matching of the BluSeal JPress profile to the joint width is necessary to ensure that the required compression is created to maintain stability of the seal.

BluSeal JPress can be additionally fixed with BluSeal AD50 to support the profile. When bonding the profile using sealants, ensure that the surface is dry, stable and free of separating substances. Refer to the BluSeal AD50 TDS for application details. For bonding of BluSeal JPress profile into the sealant, the BluSeal JPress profile is immediately pressed into the fresh sealant.

PROFILE TYPES

PROFILE TYPE		JOINT WIDTH	PROFILE WIDTH
JPress-6		6mm ±1mm	11mm
JPress-8		8mm ±1mm	14mm
JPress-10		10mm ±1mm	16mm
JPress-12		12mm ±1mm	19.2mm
JPress-15		15mm ±2mm	24mm

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Product Data

Please refer to Important Notice on following page

TESTED CHARACTERISTIC	STANDARD	RESULT
Specific Gravity	ASTM D412, ISO 1183	0.970g/cm ³
Shore Hardness (Shore A)	ISO868	72
Tensile Stress @ 100%	ASTM D624, ISO 037	3.00MPa
Tensile Stress @ Break	ASTM D624, ISO 037	7.4MPa
Tensile Strain @ Break	ISO 37	450%
Tear Strength	ASTM D624, ISO 34-I	22.0kN/m
Change in Tensile Strength	ASTM D573, ISO 188	-10%
Change in Ultimate Elongation	ASTM D573	-1.0%
Change in Tensile Strain	ISO 188	-1.0%
Change in Durometer Hardness (Shore A)	ASTM D573	4.0
Change in Shore Hardness (Shore A)	ISO 188	4.0
Continuous Upper Temperature Resistance	SAE J2236	135°C
Compression Set	ASTM D395B, ISO 815	30% @ 70°C 41% @ 125°C
Brittleness Temperature	ASTM D746, ISO 812	-60°C

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IMPORTANT NOTICE

This Technical Data Sheet is provided for general information and instruction only. The properties and characteristics set out herein represent typical testing results under laboratory conditions. Results of actual product characteristics may vary slightly. Site-specific and project-specific conditions may affect product performance, including without limitation: surfaces, environmental conditions, contact conditions, storage conditions, storage timeframes, weather, and climatic or seasonal conditions. Not all product parameters are batch tested as part of the manufacturing quality control process, and performance may vary between batches.

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