

J-SEAL® TPER JOINT SEAL



PRODUCT DESCRIPTION

CORKJOINT J-Seal® TPER (Thermoplastic Elastomeric Rubber) **Joint Seal** is a pre-formed joint seal for use in expansion and construction joints in concrete to prevent the egress of water through the joint, and to seal against the infiltration of debris and foreign matter from entering the joint.

J-Seal® TPER Joint Seal is extruded from a specially compounded cross-linked TPER material that provides resistance to UV, certain chemicals, oils, fuels, salt and sewage water. **J-Seal® TPER Joint Seal** can be fully submerged under water.

J-Seal® TPER Joint Seal provides high performance features for long-term durability and integrity of the joint, for continuous use in low and high temperatures, and has excellent UV and weather resistance.



ADVANTAGES

- Simple & easy to install
- Can handle a wide range of movement
- Creates an aesthetically pleasing joint finish
- Competitively priced against traditional joint sealing compounds
- Provides a permanent & flexible seal at the surface of the concrete and inside the concrete joint
- Acts similar to a waterstop and can be fully submerged in water
- Does not work free from the joint, even when the joint is subject to expansion and contraction movements
- Strong, robust and has excellent abrasion resistance
- Available in standard concrete grey colour. Other colours available to match the colour of the substrate surface
- Compatible with all different types of expansion joint fillerboards
- Installs at a wide range of temperatures and climatic conditions with resistance to UV and many chemicals.
- Factory made intersections are available for joint areas that intersect or transect each other
- Ability to be used in areas where curves or radius joint positioning is required
- Can be used in conjunction with other waterstop systems as added benefit/protection to the structure and to the system
- Joining by heat welding.

Note : The product's design and performance, its intended use, installation and final confirmation and approval for use, must be provided by the project's Design Engineer and Project Manager.



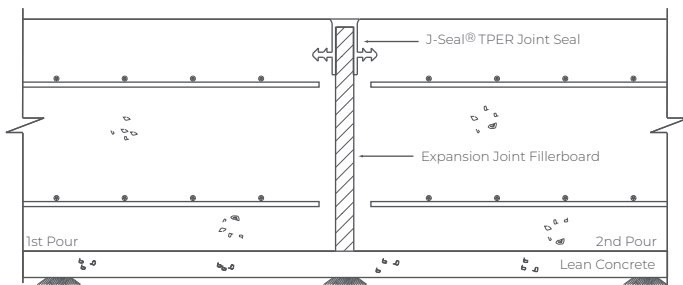
AREAS OF APPLICATION

- For expansion & construction joints in concrete
- Slab on ground and roof slab joints
- Connection of slab to wall (podium deck area) locations
- Concrete pathways or walkways
- Carparks, driveways, tunnels and concrete roads
- Reservoirs, dams, water treatment plants & sewage treatment plants

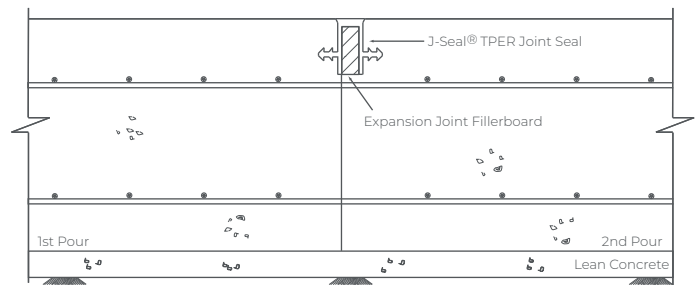
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TYPICAL APPLICATIONS



SLAB ON GROUND (EXPANSION JOINT)



SLAB ON GROUND (CONSTRUCTION JOINT)

Note : Contact **CORKJOINT** for custom application requirements.



TECHNICAL FEATURES

COLOUR	Grey
PACKAGING	J-Seal® TPER 612 = 10m roll J-Seal® TPER 620 = 10m roll
STORAGE CONDITIONS & SHELF LIFE	5 years from the date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions out of direct sunlight at temperatures between +10°C and +40°C
MATERIAL TYPE	Thermoplastic Elastomeric Rubber (TPER) with UV stabiliser
WELDING TEMPERATURES	Approximately 190°C - 200°C
SERVICE TEMPERATURE RANGE	-25°C to +95°C
APPLICATION TEMPERATURE RANGE	+5°C to +50°C



PHYSICAL PROPERTIES

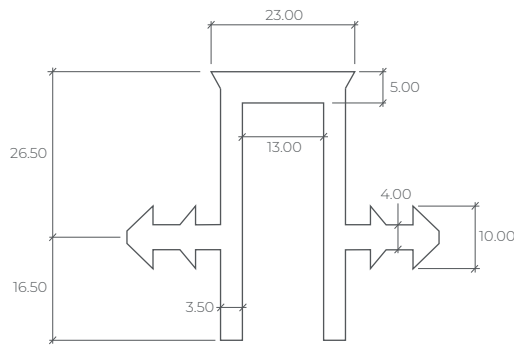
PROPERTY	TEST METHOD	REQUIREMENT	RESULT
Tensile Strength	BS2782:320A	14.00 (minimum)	18.02
Elongation at Break, %	BS2782:320A	350 (minimum)	400
Hardness, Shore A	BS2782:365B	75 ± 5	72
Specific Gravity	BS2782:620B	1.33 ± 0.03	1.35
Water Absorption at 23°C (%)	ISO 62	0.15 (maximum)	0.15

Note : Refer to Corkjoint's in house Certificate of Analysis (COA) for test results pertaining to the above. Internal COA's are conducted on every batch of raw material that is used in the production of **J-Seal® TPER Joint Seal**. Independent laboratory test results are also available upon request. Project specific material properties can be custom compounded to suit. Material properties can vary between batches.

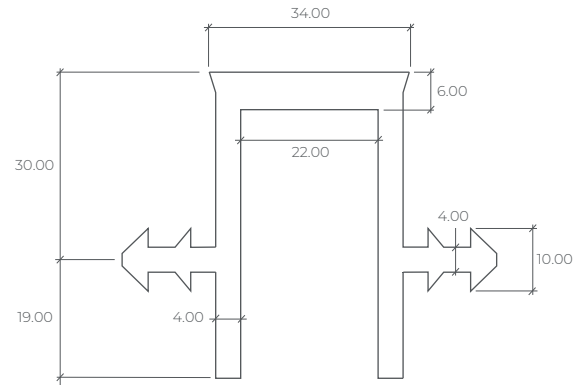




PRODUCT DIMENSIONS



J-SEAL® TPER 612



J-SEAL® TPER 620

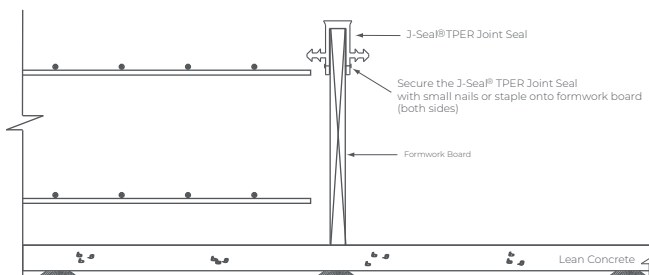
Note: J-Seal® TPER 612 for use in a 10mm to 15mm wide expansion joint and J-Seal® TPER 620 for use in a 20mm to 25mm wide expansion joint.



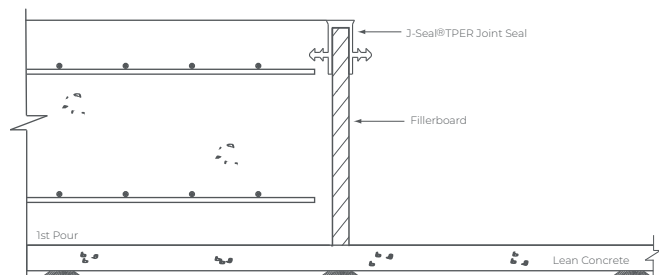
INSTALLATION PROCEDURES

1. Formwork is to be placed into position where the joint is to be placed. The top of the formwork should be 6mm below the surface of where the top of the concrete is to finish.
2. **J-Seal® TPER Joint Seal** is placed over the top of the formwork and is secured in position by small tack nails or staples placed along the lower section of the seal (below the fin) into the formwork. Both sides are to be tacked and secured.
3. The first pour of concrete is ready for placement. Care should be taken that the concrete is fully vibrated around the fins of the **J-Seal® TPER Joint Seal** to achieve full integration of the fin into the concrete. Once the first pour has cured, carefully remove formwork from out of the **J-Seal® TPER Joint Seal**.
4. Cut expansion joint fillerboard to the full-face height of the joint and firmly insert and fit it inside the **J-Seal® TPER Joint Seal**. A high-quality expansion joint fillerboard should be used and recommended is **CORKJOINT's** Jointflex or **CORKJOINT's** N.E.C Cork Fillerboard. Width of the fillerboard to be the same width as the **J-Seal® TPER Joint Seal** or similar.
5. Insert expansion joint fillerboard fully into the **J-Seal® TPER Joint Seal** and adhere the fillerboard onto the face of the first concrete pour. Placement of the second pour can now take place. Again, care should be taken that the concrete is fully vibrated around the fin of the **J-Seal® TPER Joint Seal** to achieve full integration of the fin into the concrete.
6. If **J-Seal® TPER Joint Seal** is to be used for a construction joint, then an expansion joint fillerboard is not needed to be positioned on the face of the joint. A small piece of expansion joint fillerboard will need to be placed inside the **J-Seal® TPER Joint Seal** to the width and depth of it. The second pour of concrete can then be poured against the face of the first pour.
7. If joints intersect or transect, use factory made intersection pieces. Straight butt joints must be heat welded together using **CORKJOINT's** specialized heat welding equipment. Installation training and welding equipment are available upon request.

Note: For full installation method guidelines, please also refer to our **J-Seal® TPER Joint Seal Installation Method Guideline** data sheet.



- A. Expansion Joint Detail. Place **J-Seal® TPER Joint Seal** on top of formwork and secure with small staples or nails. Leave head of nail protruding for easy removal. Place 1st pour of concrete into position and flush to the top of the Seal.



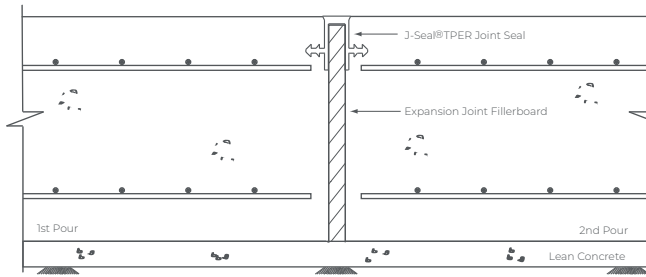
- B. Once concrete is dry, remove the formwork and place expansion joint fillerboard in to **J-Seal® TPER Joint Seal** and against the face of the 1st pour of concrete. The application is now ready for the 2nd pour to take place.

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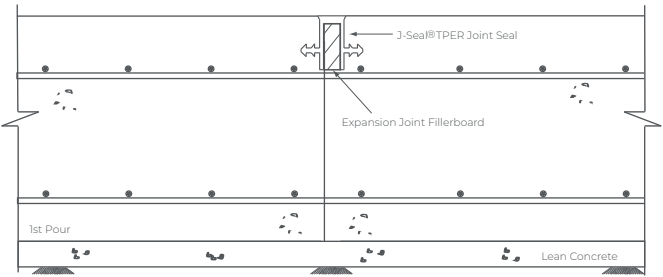




INSTALLATION PROCEDURES (continued)



- C. Place 2nd pour of concrete against the expansion joint fillerboard flush to the top of **J-Seal® TPER Joint Seal**.



- D. Construction Joint Detail. Once formwork is removed, place fillerboard inside the **J-Seal® TPER Joint Seal**, flush to the bottom of the Seal. Pour 2nd pour of concrete against 1st pour and the **J-Seal® TPER Joint Seal**. Both pours of concrete to finish flush to the top of the Seal.

Note : Fillerboard used in construction joint and expansion joint details must be Jointflex® (Closed Cell Polyethylene) or **CORKJOINT** N.E.C Cork Fillerboard due to their quality and durability performance.



DESIGN PARAMETERS

- **J-Seal® TPER Joint Seal** must be installed to **CORKJOINT**'s recommended Installation Procedures as stated on Page 3.
- **J-Seal® TPER Joint Seal** can be used in conjunction with other waterstop systems as added benefit/protection to the structure and to the other system. Consult **CORKJOINT** for product suggestions and suitability.
- **J-Seal® TPER Joint Seal** must be heat welded together at butt and intersection joints. Upon request, **CORKJOINT** is able to train and provide the specialized welding equipment to perform this procedure.
- **J-Seal® TPER Joint Seal** should not be used in heavy trafficable, high-abrasive or high impact conditions. Consult **CORKJOINT** for condition or location suitability.

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SITE JOINING

CORKJOINT recommends the use of its specialized welding equipment for on-site welding which consists of thermostatically-controlled welding blades and special welding jigs (each type of **CORKJOINT J-Seal® TPER Joint Seal** requires its own welding jig to suit the particular shape). On-site joining is a simple exercise using **CORKJOINT** Heat Welding Equipment comprising of an adjustable welding jig and heating blade. The ends of the waterstop are cut square and placed into the adjustable jig. The ends of the waterstop then slide up against the heating blade and bring the two ends together until the molten ends of the TPER fuse. When ordering welding equipment, please advise profile number of waterstop required.



WRITTEN SPECIFICATION

Pre-formed Joint Seal shall be **J-Seal® TPER** (write style no.) **Joint Seal** as supplied by **CORKJOINT** with dimensions, shape and material properties as illustrated/mentioned in their brochure. All installation and joining procedures must be in accordance to **CORKJOINT**'s recommendations and requirements.





HEALTH AND SAFETY INFORMATION

Joining of **J-Seal® TPER Joint Seal** is performed by heat welding which results in the discharge of hydrogen chloride mist and vapour. In confined spaces or in still air conditions, the use of a ventilation fan or a suitable respirator should be adopted. For further information or advice on health and safety precautions, safe handling, storage and correct disposal of products, please refer to the most recent product Safety Data Sheet (SDS), which is available upon request.



DISCLAIMER

The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability of, or fitness for, particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and/or oral recommendations, or from any other advice offered by the Company. The Company also has no express or implied knowledge of any particular purpose for which the product is required and any such information given will not be taken into account in the supply of this product. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. The information contained in our brochure may change at any time without notice. Any use of this product, **J-Seal® TPER Joint Seal**, in any application should be approved as suitable for use/application by the Design Engineer and Project Manager.

Effective Date: 07 APRIL 2022

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