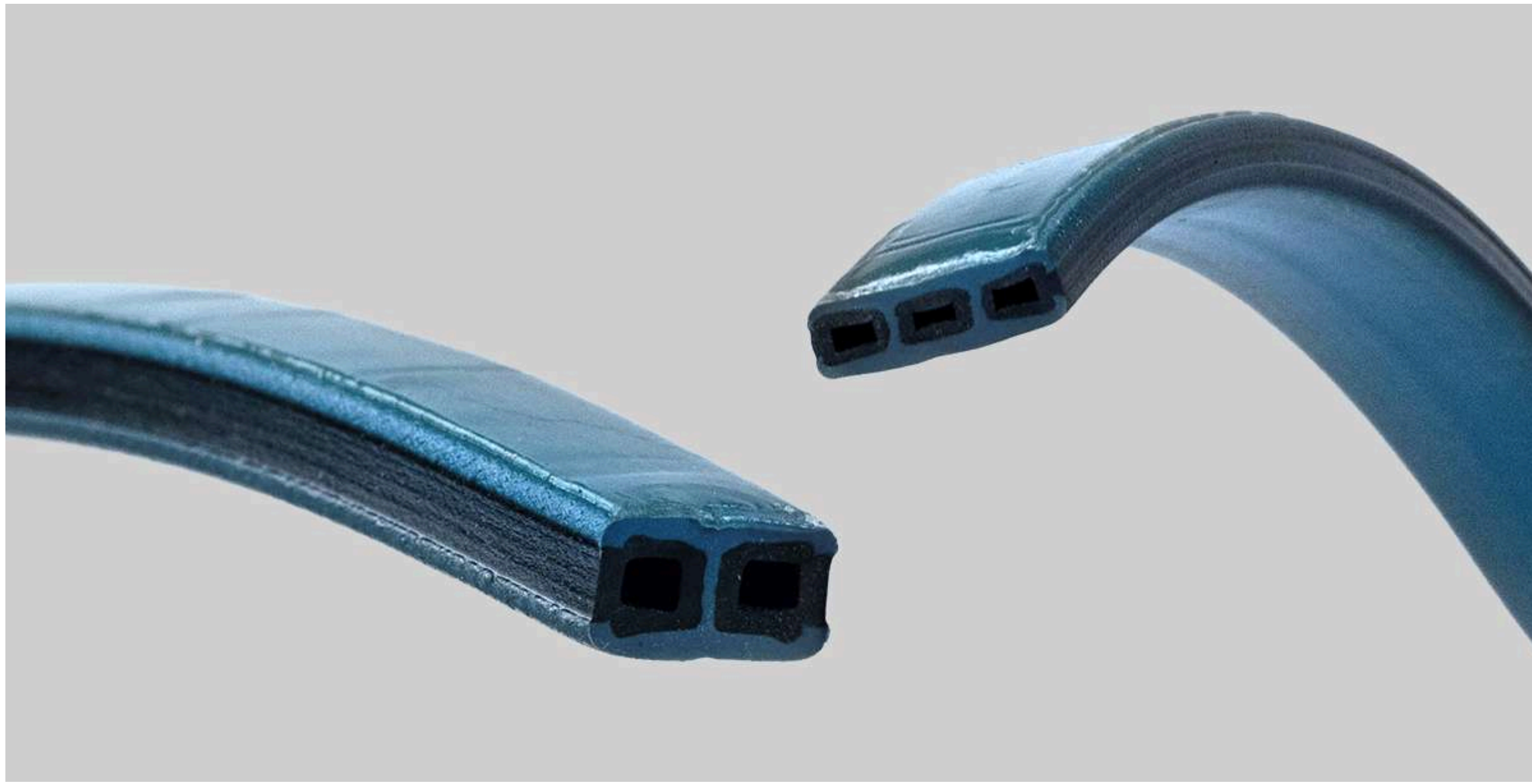
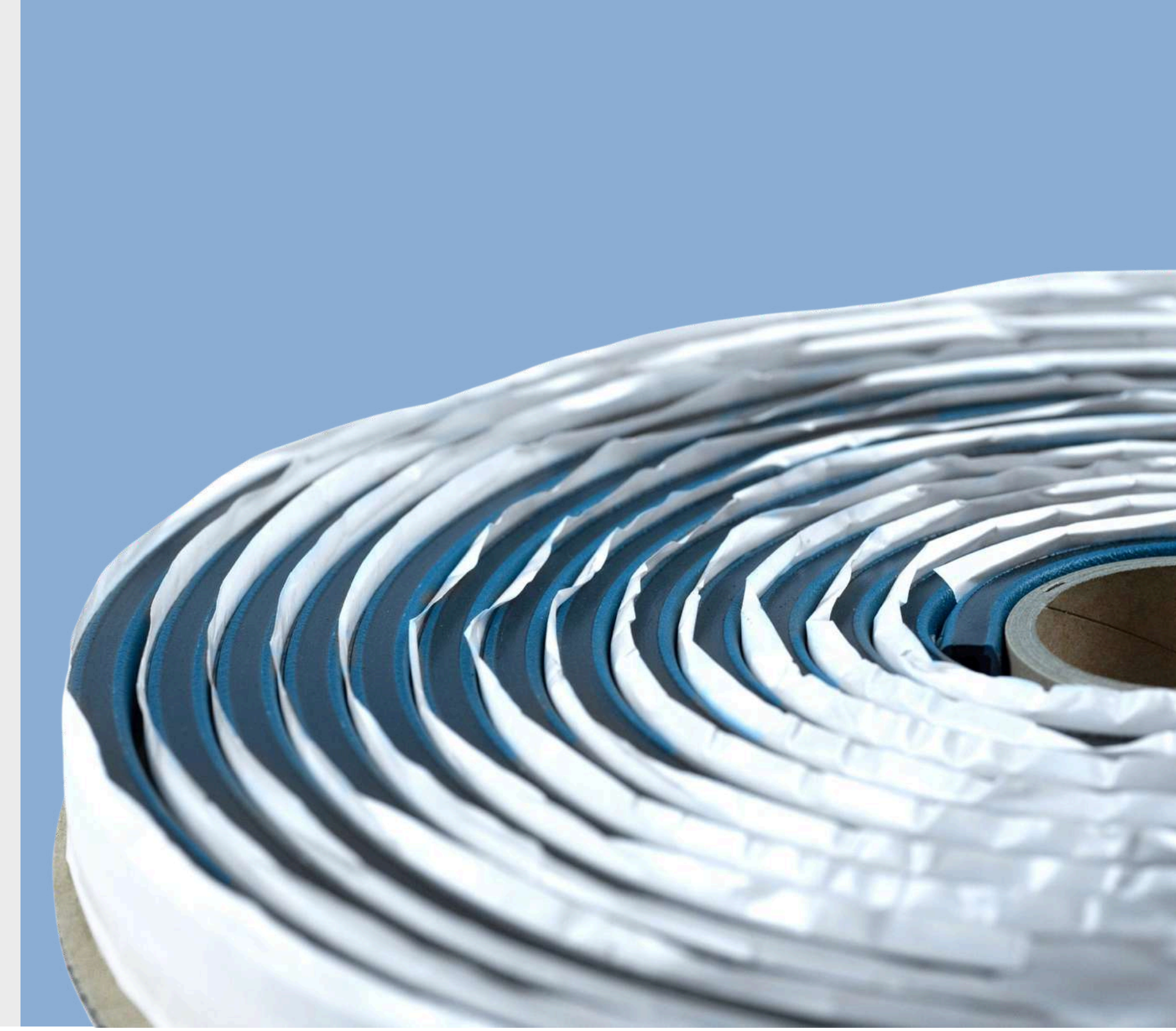


PRODUCT DESCRIPTION

Danterr's Hydrotite is a hydrophilic chloroprene rubber waterstop system designed for sealing non-moving construction joints in cast-in-situ concrete structures. Manufactured from co-extruded chloroprene rubber and hydrophilic resin, this high-performance hydrotite waterstop expands in a controlled manner when exposed to water, creating an effective pressure seal against water ingress.

The co-extruded design directs expansion across the joint for improved sealing performance, while the integrated delay coating helps minimise premature expansion during construction. Hydrotite complies with AS/NZS 4020:2018 for products in contact with drinking water and is suitable for hydraulic heads up to 50 metres when properly installed.



FEATURES & BENEFITS

- Expands on contact with water to seal concrete joints.
- Co-extruded design directs expansion across the joint.
- Withstands repeated wet and dry cycles.
- Provides excellent adhesion to concrete surfaces.
- Compatible with traditional PVC waterstop systems.

APPLICATIONS

- Construction joints in cast-in-situ concrete
- Reservoirs and water retaining structures
- Pipe penetrations through concrete
- Tunnels and underground structures
- Subway stations and infrastructure projects
- Precast concrete joints and box culverts

PACKAGING & AVAILABILITY

| Code | Description | Pack Qty. |
|--------|---------------------------------------|-----------|
| 105905 | Hydrotite 7X25X10M Roll CJ0725-3K-AD | 4 Rolls |
| 105089 | Hydrotite 20X20X10M Roll CJ2020-M | 3 Rolls |
| 111713 | Hydrotite 30X30X10M Roll CJ3030-M | 2 Rolls |
| 108135 | Hydrotite 30X10X10M Roll CJ1030-4M | 4 Rolls |
| 105907 | Hydrotite 10X20X10M Roll CJ1020-2K-AD | 5 Rolls |
| 105906 | Hydrotite 2X20X25M Roll DSS-0220-AD | 4 Rolls |
| 111714 | Hydrotite 12mm x 10m Roll RSS1208D | 2 Rolls |
| 110124 | Hydrotite 16mm x 10m Roll RSS1610D | 2 Rolls |
| 111038 | Hydrotite 20mm x 10m Roll RSS2014D | 2 Rolls |
| 110125 | Hydrotite 25mm x 10m Roll RSS2519D | 2 Rolls |

INSTALLATION INSTRUCTION

1. Ensure concrete surfaces are clean, dry, smooth, and free from contaminants.
2. Position Hydrotite to maintain a minimum 100mm concrete cover.
3. Install using self-adhesive backing or the approved adhesive system.
4. Form all joints using neat butt joints, cut square with a sharp blade.
5. Apply Leakmaster across all joins to maintain watertight continuity.
6. Protect Hydrotite from moisture or ponding water before concrete placement.

SAFETY

- Store in a cool, dry, and dark environment.
- Protect from sunlight, moisture, and standing water.
- Keep product sealed in original packaging until installation.
- Shelf life is 3 years from the date of manufacture when stored correctly.
- Follow all relevant site safety procedures and PPE requirements.

TECHNICAL SPECIFICATIONS

MAIN COMPONENT

| Property | Typical Value |
|---------------------------|---|
| Material | Hydrophilic chloroprene rubber |
| Hydrophilic Component | Chloroprene rubber and hydrophilic resin (Blue) |
| Non-Hydrophilic Component | Chloroprene rubber (Black) |
| Adhesive Type | Pressure-sensitive adhesive (DSS profile only) |
| Expansion Type | Water-activated swelling |
| Expansion Direction | Across joint |
| Chemical Resistance | Suitable for wet and dry cycle exposure |

PHYSICAL PROPERTIES

CJ0725-3K-AD and CJ1020-2K-AD

| Item | Unit | Hydrophilic Rubber | | Non-Hydrophilic Rubber | | Test Method |
|------------------|------|--------------------|--------|------------------------|--------|-------------|
| | | Spec. | Result | Spec. | Result | |
| Hardness | - | A50±5 | A52 | 50±5 | A53 | JIS K 6253 |
| Tensile Strength | MPa | Min. 2.00 | 3.61 | Min. 8.8 | 10.5 | JIS K 6251 |
| Elongation | % | 550 | 630 | Min. 400 | 475 | JIS K 6251 |

DSS-0220-AD

| Item | Unit | Hydrophilic Rubber | | Non-Hydrophilic Rubber | | Test Method |
|------------------|------|--------------------|--------|------------------------|--------|-------------|
| | | Spec. | Result | Spec. | Result | |
| Hardness | - | A50±5 | A50 | 50±5 | 50 | JIS K 6253 |
| Tensile Strength | MPa | Min. 2.45 | 3.66 | Min. 8.8 | 13.8 | JIS K 6251 |
| Elongation | % | Min. 600 | 640 | Min. 440 | 470 | JIS K 6251 |

SWELLING PROPERTIES

| Item | Profile Type | Unit | Spec | Result | Test Method |
|-----------------------|-------------------------------|------|----------|--------|---------------|
| Volume expansion rate | CJ0725-3K-AD/ CJ1020-2K-AD | % | Min. 500 | 746 | In House Test |
| Volume expansion rate | DSS-0220-AD | % | Min. 500 | 848 | In House Test |

Swelling Test Conditions: Distilled water immersion at 23°C for 14 days. Expansion rate may vary in salt or contaminated water.

**Expansion rate can vary in salt or contaminated water*

Note: The results shown above are just the measured values and not the specific figures.

SAFETY INFORMATION

Composition

- Main component: Chloroprene rubber and Hydrophilic resin

Recommended Use and Restriction On Use

- **Recommended use:** Sealing of concrete joints in construction sites, Sealing between precast concrete segments
- **Restrictions on use:** No information

GHS Hazard Class

- Not classified as hazardous according to GHS criteria.
 - **Signal Word:** Not Applicable
 - **Hazard Statements:** Not classified as hazardous.

First-Aid Measures

- **Skin Contact:** Flush skin with water and soap if irritation occurs. Seek medical advice if symptoms persist.
- **Eye Contact:** Do not rub eyes. Flush immediately with clean water until irritation subsides. Seek medical attention if symptoms continue.
- **Inhalation:** Not considered hazardous under normal conditions of use. Move the person to fresh air if dust or fumes are inhaled.
- **Ingestion:** If conscious, give water to drink and induce vomiting. Seek immediate medical attention.
- **Protection for First Aiders:** Wear suitable eye and skin protection.

Fire Fighting Measures

- Suitable media: Water mist, dry chemical powder, fire foam, and carbon dioxide (CO₂).
- Combustion may produce: Hydrogen chloride (HCl), Carbon monoxide (CO), and Toxic decomposition fumes
- Protection: Firefighters should wear SCBA and protective clothing

Accidental Release Measures

- Personal Precautions
 - Restrict access to authorised personnel only.
 - Wear PPE as outlined in Section 8.
- Environmental Precautions
 - Methods for Cleaning Up
 - Sweep or collect material manually into suitable containers for disposal.
 - Secondary Prevention Measures
 - Remove ignition sources where applicable.

Exposure Controls / PPE

- Permissible Concentration: Not Applicable
- PPE: Safety shoes, protective gloves, safety glasses, overalls

Stability & Reactivity

- Chemical Stability: Stable under normal handling and storage conditions.
- Conditions to Avoid: Water exposure before use, Heat, Flame, Direct sunlight
- Incompatible Materials: Oxidising agents.
- Hazardous Decomposition Products: Hydrogen chloride and combustion fumes may be generated during fire.
- Hazardous Reactions: No hazardous reactions expected under normal use.

Toxicological Information

- No information

Ecological Information

- Ecotoxicity: No information
- Persistence and degradability: No information
- Bioaccumulative potential: No information
- Mobility in soil: No information
- Hazardous to the ozone layer: Not applicable

Disposal Considerations

- Dispose of material in accordance with local regulations.
- Do not burn product.
- Recycle packaging where possible after cleaning.
- Consult licensed waste contractors where required.

Transport Information

- Handle with care during loading to prevent the product from falling or being dropped due to its weight. Take appropriate measures to avoid injury caused by collapsing cargo stacks. During transportation, protect the product from rain, snow, and water exposure.

Regulatory Information

- US Federal regulation
 - TSCA inventory: Registered