

## Logiscell+®

Water-activated, flexible polyurethane foam or gel resin

### Description

Logiscell+® is a versatile, easy-to-use single component, water activated, hydrophilic polyurethane resin for sealing actively leaking joints and cracks in below-grade concrete, PVC or PE structures. It forms either a closed cell, watertight foam or impermeable gel depending on the water to resin mix ratio. Cured material remains flexible and has excellent adhesion.

### Primary Applications

Seal leaks, particularly structures subject to movement or vibration.

### Example structures and settings:

- Manholes
- Sanitary sewers
- Dams
- Below-grade concrete walls
- Tunnels
- Elevator service pits
- Utility vaults
- Tanks
- Excavation pits
- Tunneling launch pits
- Stormwater pipes / structures

### Advantages

- Forms flexible foam or gel with excellent adhesion
- Versatile and easy to use; seals tight or wide cracks in joints
- High elongation allows for thermal or structural movement
- Can be used with oakum to seal wide gaps
- Non-flammable, non-corrosive
- Moderate viscosity resin resists wash-out during application under gushing water conditions
- Can be used underwater

### Technical information

Typical Data: Physical Properties at 77°F (25°C) - Liquid. Properties will vary depending upon site conditions, application method and equipment, material temperature, and curing conditions.

Material Gel Time @ 77°F (25°C)		
Ratio (H <sub>2</sub> O: Resin)	Gel Time (sec)	End of Rise (sec)
1:1 by volume	35-45	110 - 130
4:1 by volume	50 - 60	60 - 120
8:1 by volume	55 - 65	N/A

Typical Properties	Results	Test Method
Viscosity	3500 - 5000 cps (neat resin)	ASTM D 2196
Physical properties— cured		Test Method
Density	8.98 lb/gallon (1.09 kg/l)	ASTM D1475
Toxicity	Non-toxic in cured form	

## Accessory Products

- Oil-free oakum

## Directions For Use

### Mixing Ratio

Uses available water to initiate reaction. Material goes from a foam to a gel at about 4:1 (water:resin). Material can absorb up to 12x its volume in water.

### Material Preparation

Store material overnight to precondition to 70-80°F (21-27°C) prior to use. It is not necessary to pre-mix Logiscell+ prior to use.

### Limitations

Cold temperatures will slow down reaction time and increase viscosity. pH below 3 or above 10 may adversely affect foam properties.

## Storage & Clean Up

### Storage

Store in dry environment between 40 and 80°F (4 and 27°C). Shelf Life: 18 months from date of manufacture in unopened containers properly stored.

### Clean Up

Clean off of skin with soap and water.

## Environmental Protection

Cured material is environmentally safe. Dispose of according to federal, state and local regulations.

## Shipping

Shipping Class: Motor Freight Class 60

Hazard Classification: Non-Hazardous

## Health & Safety

### Safety

See SDS for complete safety precautions prior to use.

Use HSE-approved personal protective equipment (PPE), including safety glasses, gloves and confined space equipment/procedures if applicable. Avoid skin contact; do not ingest. For professional use only.

### First Aid

**Eye Contact:** Immediately flush with large amounts of water.

Seek medical attention. **Inhalation:** Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention. **Ingestion:** Seek medical attention immediately.

**Skin Contact:** Wipe off contaminated area and wash with soap and water.

## Manufacturing

Products are manufactured by USL in the USA. under strict quality assurance practices at our Conyers, GA plant. Made in USA using U.S. and imported materials.

## Warranty & Disclaimer

Logiball and USL (the Manufacturer) warrants their products to be free from manufacturing defects and that products meet the published characteristics when tested in accordance with ASTM and Logiball standards. No other warranties by the Manufacturer are expressed or implied, including no warranty of merchantability or fitness for a particular purpose.

The Manufacturer will not be liable for damages of any sort resulting from any claimed breach of warranty since it has no control over how the products are used and applied. The Manufacturer's liability under this warranty is limited to replacement of material or refund of sales price of the material. There are no warranties on any product that has exceeded the "shelf life" or "expiration date" printed on the package label.

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