

FLEX-1100 FLEXIBLE RESIN

TECHNICAL DATA SHEET

DESCRIPTION

FLEX-1100 is a 100% MDI-based, mid-range viscosity, moisture activated polyurethane injection resin. This high quality water-activated resin is designed for sealing active leaks in below grade structures. It is a mid-range viscosity grout that permeates well in various cracks and joints, but offers added safety in confined spaces or where there is poor ventilation. It cures to become a resilient and flexible, yet tough, closed-cell foam. Certified for use in potable water.

APPLICATION

- Areas with poor ventilation or confined spaces (utility vaults, sub-grade pump houses, lift stations, mines, tunnels, and basements)
- Medium cracks or joints in concrete structures
- Great for manholes and pipe penetrations

ADVANTAGES

- ANSI/NSF 61 Potable Water Systems UL Certified
- 100% MDI-based
- Mid range viscosity penetrates well
- Expands 400% – 600%
- Solvent-free system and non-corrosive
- Forms a resilient, flexible foam with superb adhesive properties

HOW IT WORKS

FLEX-1100 reacts to moisture to form a resilient, flexible seal accomplished by three mechanisms: the resin seeks out water in the space and adheres to the surface, then begins to expand forming a tight compressive seal while the network of compressed grout material within all the cracks forms a mechanical lock.

MIXING

Holding the dual-pack in an upright position, remove tip cover and snap off the tips. Attach nozzle and tightly screw on plastic nut. Insert the duo-pack into the injection gun. No measuring required.

PROPERTIES*

UNCURED

Appearance: Blue liquid

Viscosity: 350 – 750 cP @ 72°F (22°C)

Flash Point: >200°F (>93°C)

Specific Gravity: 1.12 @ 72°F (22°C) ± 3%

Weight: 9.32 lb/gal ± 3% (1.117 kg/L ± 3%)

CURED

Appearance: Milky colored flexible foam

Tensile Strength: TBD

Elongation: TBD

*Laboratory Results

PERFORMANCE

For best results, use between 16°C - 32°C (60°F - 90°F). Performance will be influenced by site conditions. If site temperatures are low, use a heat source to warm to ~72°F (22°C) and apply. Do not use open flame as a heat source.

STORAGE

Store in room temperatures within or near 60°F - 90°F (16°C - 32°C) in a dry, dark atmosphere. Do not expose to direct sunlight. Keep away from combustible products and open flames.

SAFETY

Always use OSHA-approved personal protective equipment (PPE). Refer to MSDS for complete safety precautions.

WARRANTY

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