



TECHNICAL DATA SHEET
TECHNO LAM™ 8887 FR
Thixotropic Epoxy Laminating Resin

DESCRIPTION

TECHNO LAM™ 8887 FR is a thixotropic epoxy laminating resin system composed of 100% solids and reactive materials.

Specifically formulated for the rehabilitation of underground municipal and residential pipelines, it is supplied as a viscous, thixotropic liquid with rapid curing properties at low temperatures and strong performance in humid environments.

Ideal for seasonal use from October to May (10°C to 15°C), depending on ambient conditions, for linear sections of 3–10 feet.

FEATURES & BENEFITS

- **Excellent substrate wetting properties**
- **Rapid development of physical properties at low temperatures**
- **Can be applied vertically without sagging up to 1/8 inch thickness**
- **Very low linear shrinkage**

LAMINATE INSTALLATION

The conduit must be completely free of contaminants. No standing water or puddles should be present. Ensure full saturation of the reinforcement fiber with resin to prevent water infiltration through laminate strands. Wet-out is improved when conventional laminating techniques are used (i.e., manual pre-wetting with a de-aeration roller) prior to installation of the inflatable bladder inside the conduit.

The bladder must remain in place for approximately 60–120 minutes depending on installation temperature and laminate thickness. This time must be validated, as it may vary significantly depending on seasonal conditions.

Laminate curing may be accelerated using a heat source (hot water or steam) for a defined period.

⚠ NOTE: AFTER 24 HOURS THE PRODUCT BECOMES VERY BRITTLE.

DO NOT USE WITHOUT REINFORCEMENT FABRIC (FIBERGLASS, JUTE, GEOTEXTILE FABRIC, FELT, ETC.).

MIXING INSTRUCTIONS

1. Mix Part A and Part B separately until homogeneous.
2. Add Part B into Part A.
3. Mechanically mix for 3–4 minutes until completely uniform (no streaks or amber swirls).
4. Scrape the bottom and sides of the container to ensure full incorporation.
5. Minimize air entrapment during mixing.

Mix Ratio (by weight)

100A : 40B



Accurate proportioning is critical. Deviations may result in variations in physical and chemical properties and may prevent complete cure.

**Do not mix more material than can be applied within the stated pot life.
Uncured material can be cleaned using D-201 solvent.**

For additional technical assistance, contact POLYMÈRES TECHNOLOGIES.

TYPICAL PROPERTIES (at 22°C)

Property	Part A	Part B	Mixed
Viscosity (Brookfield, cps)	194,000	3,000	TBD
Consistency	Thixotropic Liquid	Liquid	Thixotropic Liquid
Density (g/cm ³)	1.31	1.02	TBD
Mixing Ratio (by weight)	100	40	100/40
Pot Life (200 g mass)			15 minutes @ 22°C
Peak Exotherm			112°C (ASTM D 2471-71)
Handling Time @ 13°C			75-90 minutes approx.
Handling Time @ 22°C			Less than 60 minutes
Full Cure			7 days

PHYSICAL PROPERTIES (CURED - 7 days at 22°C)

Test	Method	Result
Hardness	ASTM D 785-65	Shore D 82 ± 3
Glass Transition Temperature (T _g)	ASTM E 1545	65°C

SAFETY PRECAUTIONS

Consult the Safety Data Sheet (SDS) before use.

During handling, strictly observe appropriate industrial hygiene measures:

- Ensure adequate ventilation
- Wear gloves, safety glasses, and protective clothing

Shelf life once container is opened: POLYMÈRES TECHNOLOGIES assumes no control or responsibility.

Shelf life in original unopened containers: 1 year

Observe all Provincial and Federal safety regulations.

In case of eye contact: rinse thoroughly with water and seek medical attention immediately.

In case of skin contact: wash thoroughly with soap and water.

Keep out of reach of children.

WARRANTY

The use of TECHNO LAM™ 8887 FR in any specific application must be tested (including field trials) to determine suitability. Technical advice provided verbally or in writing, including assistance and testing, is given without warranty and does not relieve the user from the obligation to verify product suitability for intended processes and applications.



POLYMÈRES
technologies

**TECHNO
LAM 8887**

Application, processing, and transformation of supplied products are beyond our control and therefore remain entirely the user's responsibility.
Should liability be established, it shall be limited to the value of the goods supplied and used.
We guarantee consistent product quality in accordance with our General Terms and Conditions of Sale and Delivery.

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