



# Technical Data Sheet

## Epoxy Adhesive

### Technical Specifications

No.	Characterizations	Unit	Specification	Test Method
1	Mixing Ratio	-	1:1	-
2	Workability Time (25°C)	minutes	45	ASTM C881
3	Minimum Work Temperature	-	10°C	
4	Density	g/cm <sup>3</sup>	1.5	ASTM C881
5	Tensile Strength	MPa	27	ASTM C881
6	Shear Strength	MPa	13.5	ASTM C881
7	Compressive Strength	MPa	80	ASTM C881
9	Flexural Strength	MPa	17	ASTM C881

### Effect of Temperature

Ambient Temperature	Gel time	Minimum Time Required for Initial Curing	Minimum Time Required to Achieve Maximum Properties
10°C	200 minutes	48 hours	8 days
15°C	100 minutes	24 hours	6 days
25°C	50 minutes	10-12 hours	4 days
40°C	20 minutes	6 hours	2 days

### Application

WallMesh Epoxy Adhesive is a two-component adhesive designed to create strong and stable connections between the L-profile and beam in wallmesh systems. Serving as an advanced alternative to traditional methods like welding and mechanical restraint, this adhesive ensures effective force transfer from non-structural walls to the main structure. Composed of epoxy resin and hardener, the adhesive undergoes polymerization to form a durable, high-strength bond, providing long-lasting performance in seismic and wind load applications.

### Advantages

- High strength to withstand high tensile and shear forces.
- Strong bond with various surfaces, including steel and concrete, ensuring long-term stability.
- Compatible with a wide range of building materials.
- Chemical resistance to acids, alkalis, and solvents, suitable for industrial and construction environments.
- Long-term durability, with a stable polymer structure that resists temperature and humidity changes, ensuring longevity.

### Storage

Store WallMesh Epoxy Adhesive in its original packaging, in a dry, cool, and well-ventilated area. Keep components separate and protect from direct sunlight, moisture, and extreme temperatures. Ideal storage temperature: 5°C to 25°C.

### Packaging

- Carton with two 1 kg cans

Padidar Bon Novin Mehr

Address: Tehran, Saadat Abad, Darya Blvd., Sharifi Blvd.,

Tohid 2nd St., No. 55.

Tel: 021-8856 3504 - 021-8856 7318

www.wallmesh.ir ✉ Info@wallmesh.ir 📷 wallmesh