

Transparent Crack Repair Adhesive

This product is a transparent leveling adhesive.

It is intended for concrete crack repair and injection process, where visual inspection of the crack injection process is possible, during and after the repair process.

Typical crack repair adhesive is colored, which makes it difficult to examine the repair and injection effects.

With “visible” technology, the size of crack is easy to examine. Using HM-120MLT, it is easy to inspect the repair and injection effects by direct visual examination, during and after the repair process.

HM-120MLT Crack Repair Adhesive (Transparent) is a two component modified epoxy resin adhesive.

It is mainly used for sealing fractured concrete surface, and pasting adhesive injection nozzle.

It could also be used for concrete surface repair and levelling.



▲▲Product Characteristics

- Transparent product It allows observing crack filling during the liquid epoxy adhesive injection process.
- Updated advanced new product formula. It is more durable, and has better sealing performance.
- Cures at room temperature, and the curing time could be customized.
- High strength, high durability, good chemical resistance, and does not peel off.
- Does not shrink when curing, good ductility, good deformation resistance.
- The initial thixotropic property is extremely high, easy to apply.
- Compared with similar products, it is cost-effective as smaller quantities of materials are needed.

▲▲Application Range

Suitable for concrete structure crack repair in expressways, viaduct bridges, and buildings etc.

Matches the use with HM-120L to seal cracks and paste injection nozzles.

Used to repair and leveling of concrete surface, with the capability to visually inspect the crack filling, width, and long-term performance.

▲▲Concrete Structure Crack Joint Sealing Seam Filling and Visualization Processing Technology

In order to overcome the uncertainty in crack sealing and ensuring quality control of crack filling/sealing, the new technology of transparent adhesive has been developed. This new technology allows visual inspection of crack filling, better quality control, and better inspection of the cracks during the service life of the structure.

This process through the existing market (or future market) provides a transparent adhesive for sealing crack surface.

When used along with color liquid epoxy adhesive for sealing cracks,

the new transparent surface adhesive allows visual observation of crack filling during the injection process.

This new technology can easily solve the crack filling and seaming treatment after fracture formation.

▲▲ Improve the Crack Sealing Technology

- Surface treatment: Polish the surface along the crack line, (about 10cm on either side of the crack).
- Slotting: Cut a slot groove along crack length and direction, as per required size and shape.
- Injection sealing adhesive: After cleaning and dry up, inject HM-120MLT to the cracks surface with special dispenser, make sure the adhesive is even and has no bubbles.
- Cleaning and Leveling: smoothing the adhesive, make sure no bubbles or dirt inside the adhesive, as to allow the adhesive to fill the crack completely.
- Other requirements: please refer to current international codes.





▲▲ Performance Parameter

Description	Performance	Qualified Standard (GB50728-2011)
Physical Performance	Appearance	Part A: Stringy paste Part B: Stringy paste
	Weight Ratio	A : B=3 : 1
	Density (g/cm ³)	1.2±0.1
Adhesive Performance	Tensile Strength (MPa)	≥20
	Tensile Modulus (MPa)	≥1.5×10 ³
	Bending Strength (MPa)	≥30
	Compressive Strength (MPa)	≥50
	Distortion Temperature (°C)	≥60
	Steel-steel Shear Bonding Strength (MPa)	≥10
	Non-volatile Matter Content (%)	≥99
	Shelf Life (month)	12

▲▲ Operation and Curing Time

Ambient Temperature (°C)	0	15	25	≥30
Operable Time (min)	60	40	30	20
Curing Time (h)	24	12	8	5

▲▲ Points of Attention

- Keep construction environment dry and well-ventilated. Keep concrete surface dry, clean, and free of oil and dust. Curing temperature should be above -5 °C.
- Depending on the specific project needs, the curing time could be adjusted.
- Mix as needed quantities to be applied within the reported pot life.

▲▲ Safety Measures

- Construction personnel should take the necessary safety protection measures (such as wearing masks, gloves, goggles, etc.), on-site attention to fire prevention measures, and maintenance well-ventilated work space.
- If accidentally got in touch with skin or clothing, immediately wipe clean with acetone and rinse with a large amount of water.
- If accidentally swallowed or splashed onto eye, please seek immediate medical attention.

▲▲ Transportation and Storage

- This product should be kept sealed and stored in dry and clean space at ambient temperature between -5°C and 40°C. Do not store outdoor under direct sunlight and/or rain, so not to damage the containers.
- This product could be stored for a period of 12 months from the date of production.
- This product is not inflammable, explosive, toxic, or considered a dangerous cargoes. It could be transported with general transportation equipment. The packaging containers should not be damaged, exposed to direct sunlight and/or rain, tilted or stored upside down during storage and transportation.