

Horse HM-9

High Performance Crack Sealing Adhesive

Description HM-9 crack sealing adhesive is a two components modified epoxy resin adhesive, used for repairing and sealing cracks and leveling surface in concrete, masonry and wood.

Application Range

- Structural crack repairs.
- Use together with HM-120M pouring adhesive, HM-120L crack injection adhesive.
- Seal fracture surface and paste grouting nozzle in grouting and crack repairing.
- Repair concrete surface defect and leveling construction.

Product Characteristics

- Modified epoxy resin, high Strength, high initial adhesive force
- Curing at room temperature, curing fast and adjustable curing speed
- Aging resistance, water resistance
- Acid & alkali resistance
- Strong thixotropic property and easy scraping
- Wide proportion of preparing glue, easy to control operational time
- Excellent toughness and impact resistance properties after curing
- Nontoxic, non irritating odor, environment friendly.

- Product Advantages**
- Advanced nano material technology, multi-dimensional mesh structure, good thixotropy. No sagging for both side surface or top surface construction.
 - Good thixotropy, the static stack height can reach 5 cm, non sagging, easy to operate, lower hollow area, avoid waste and rework.
 - Moderate curing time, enough operation time, no need to hurry.
 - Advanced high speed dual planetary power mixing equipment. The raw material is mixed evenly. And by vacuum treatment, there is no bubble. More stable property, longer shelf life.
 - High percentage of effective ingredient, low density, save at least 30% glue usage amount.
 - HM-120ML has passed Safety reports, Non toxic test, Horizontal flame test, Non ethanediamine test, Acute oral toxicity test etc. In total 32 types of test and 210 indexes.

Package Bucket packaging
A group: 20kg/barrels; B group:10kg/barrels

Shelf Life When stored correctly, the shelf life will be at least 12 months from the date of manufacture.

Storage Conditions Seal and store in dry and clean warehouse of ambient temperature 5°C-40°C. Do not store in the open air or rain. Do not damage the package. A part and B part should be stored separately to avoid mixing.

Technical Parameters

Physical Parameters








Appearance A Part (Epoxy)	Black grey cream
Appearance B Part (Hardener)	Grey cream

Touch dry time	1-2h	Operable time	40min
Viscosity	25 pa·s	Density after curing	1.75±0.1 g/cm ³
Operable temperature		5-40°C	
Mixture ratio (weight ratio)		2:1	

Performance Parameters

Colloidal performance	Tensile strength	≥38Mpa
	Modulus of elasticity	≥2400Mpa
	Elongation	≥1.5%
	Bending strength	≥50Mpa, no cataclastic destruction
	Compressive strength	≥70Mpa
	Non-volatile matter content (solid content)	≥99%
Adhesion performance	Steel-steel tensile anti-shear strength	≥14Mpa
	Steel to steel adhesive tensile strength	≥18Mpa
	Anti-shear strength of steel to C30 concrete	≥2.5, Concrete cohesion Failure
	Tensile bonding strength of steel to C30 concrete	≥2.5, Concrete cohesion Failure
	Tensile bonding strength of steel to C45 concrete	≥2.5, Concrete cohesion Failure

The Detailed Construction Process of HM-120L Crack Injection Adhesive

 <p>A close-up photograph showing a red and black angle grinder being used to chip away a layer of plaster from a concrete surface. A crack is visible, and the surrounding area is being prepared. A small white label in the bottom left corner reads "CRACK SURFACE PREPARE".</p>	<p>1. Crack Surface Prepare Chip away plastering layer of the 10 centimeters range on both sides of the cracks</p>
 <p>A close-up photograph showing a red and black slotting tool being used to create a narrow slot along a crack in the concrete. A small white label in the bottom left corner reads "SLOT CRACKS".</p>	<p>2. Slot Cracks slot along cracks according to the design, then polish and clean it up.</p>
 <p>A photograph showing several small, circular ports installed along a crack in the concrete. The ports are spaced out along the length of the crack. A small white label in the bottom left corner reads "SEAL PORTS".</p>	<p>3. Seal Ports Seal cracks and ports with structural repairing adhesive. Keep ports distance 10-30 centimeters.</p>
 <p>A photograph showing a crack in the concrete with several ports installed. A small white label in the bottom left corner reads "AIR PRESSURE TEST".</p>	<p>4. Air Pressure Test When the structural repairing adhesive has cured, begin the air pressure test. If there is leakage, seal it or reinstall ports.</p>
 <p>A photograph showing two buckets of adhesive being weighed on scales. A small white label in the bottom left corner reads "MIX ADHESIVE".</p>	<p>5. Mix Adhesive Mix the crack injection adhesive according to the ratio. Stir evenly and avoid any bubble.</p>
 <p>A photograph showing several ports installed along a crack in the concrete. A small white label in the bottom left corner reads "INJECT ADHESIVE".</p>	<p>6. Inject Adhesive Inhale the adhesive with adhesive injector and inject adhesive via ports one by one. Start the second injector when adhesive appears on this port. Inject from low to high level and from one side to another. When crack injection adhesive has initial cured, remove injectors and ports. Level the surface with structural repairing adhesive.</p>
 <p>A photograph showing a red and black angle grinder being used to level the surface of the concrete after the adhesive has been injected. A small white label in the bottom left corner reads "INSPECT QUALITY".</p>	<p>7. Inspect Quality Take quality inspection after seven days.</p>

Points for Attention

- Use within the applicable period
- Seal the package if any remaining glue, do not expose the glue to the air
- Temperature will influence the curing
High temperature will increase the curing speed. Low temperature will lead to longer curing time.
- Construction personnel should take the necessary safety protection measures (such as wearing masks, gloves, goggles, etc.)
- Pay attention to fire and maintain good ventilation on site
- If stained on skin or clothing, clean it with acetone and rinse with a large amount of water immediately
- If swallowed or splashed into eyes by accident, please seek medical help immediately

Transportation

This product is not flammable, explosive or toxic. It belongs to non-dangerous goods, transport as a general chemical building material. Do not damage the package or expose to sunshine or rain. Do not incline or invert the goods during transportation.

For more information, please visit our website at www.horseen.com



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