

Temporary Levelling Adhesive

HM-Q20D Temporary Levelling Adhesive is dual components. It is a highly thixotropic paste vinyl structure adhesive. It is recommended for Bridge pier, pier, coping surface repair and levelling, as well as installation of Jacks and the Pier (set). The primary purpose is to allow for a better overall contact between the jack and the bridge pier. It is also used to prevent accidents, in situations where the pier platform is not smooth, the jacking cylinder is defective/damaged, and even equipment failure.



▲▲ Product Advantages

- The effects of the surrounding environmental temperature on the curing time is insignificant, as the cure speed is fast, and the initial coagulation period only takes 20 minutes.
- Within 2 hours strength can reach C40 concrete strength.
- Good thixotropic effect, static accumulation height up to 3cm, and easy to apply.

▲▲ Product Characteristics

- Excellent thixotropic properties, easy to apply and to scratch.
- The use of unsaturated resin, strength growth is very fast, cures in 30 minutes to achieve a strength of 80% of its ultimate strength, to ensure the bridge jacking process is in rapid synchronization with the jacking operation.
- Excellent performance after curing, high compressive strength, high bond strength, good toughness and impact resistance, durable and excellent long-term performance, resistant to moderate (acid, alkali and salt), and good erosion performance.

▲▲ Application Range

Mainly used for bridge pier, pier, coping surface repair and levelling or for the installation of jacks and the piers (sets) of the top surface of the rapid repair and leveling operations.

▲▲ Technical Parameters

Model	HM-Q20D Temporary Levelling Adhesive	
Appearance	Part A: Viscous paste	
	Part B: Powder	
Mix Ratio	20:1	
Operate Time (25°C, min)	≤15	
Touch dry Time (25°C, min)	≤40	
Compressive Strength (Mpa)	2 hours	54
	4 hours	62
	12 hours	70

▲▲ Operation Process

- Surface treatment: (1) The bridge pier surface shall be cleaned and free of oil and dust, (2) grind 1~2mm of the cushion stone surface, (3) polished finished and vacuumed, and (4) finally with cotton cloth dipped in acetone clean surface, keep dry until adhesive application.
- Prepare the Adhesive: The HM-Q20D temporary leveling adhesive is formed by mixing the Components A, B by weight at a ratio of A:B=20:1. Use a putty knife to mix evenly (best stirring in the one direction, as to avoid forming air bubbles), until the color is completely uniform. Because the curing time is fast, each dispensing amount should not be too large, so the whole amount of the mixed adhesive is applied within the operating time, to avoid waste.
- Wiping glue: The mixed glue is applied on the concave part of the pier abutment surface. A putty knife is used for repairing and filling up, minimizing the high difference, and ensuring that the top of the same pier or abutment is at the same elevation, and the installation height of the jack is secured.
- Curing: Curing time depends on the temperature on the bridge element, application tools, generally at 25°C, not less than 40 minutes, before the installation of the Jack or the next step.

▲▲ Transportation and Storage

- This product should be kept sealed and stored in a dry and clean storage space of ambient temperature between -5 °C and 40 °C. In order to prevent damage, do not store outdoor under direct sunlight or under direct rain.
- A & B components should be kept separately. Shelf life is 12 months at room temperature (25 °C). Product should be tested if exceeded the shelf life. If the physical and mechanical properties after 12 months meet the standard requirements, then it could be used.
- These products are not inflammable, explosive, toxic, or dangerous cargoes. They could be transported with general transportation cargo. The epoxy containers should not be damaged, exposed to direct sunlight or rain, and should not be tilted or stored upside-down during transportation.

▲▲ Points for Attention

- The mixed Components A & B adhesive shall not be used beyond its pot life (application period).
- Unused A & B components of the adhesive, please seal the containers well, don't expose to air for a long period of time.

▲▲ Safety Measures

- Construction personnel should take 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.

▲▲ Package

The A and B components of this product are packed in separate containers. Group A is 20kg/container and Group B is 1kg/container.

