

创造特种建材的无限可能  
UNLIMITED POSSIBILITIES FOR CREATING  
SPECIAL BUILDING MATERIALS



# 弹性砼

## Elastic concrete



Provider of comprehensive solutions  
for concrete disease control

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## 01 Composition

Elastic concrete is a three-component polymer elastic material composed of A, B, and C. Components A and B are polymer elastic characteristic resin and toughening curing agent respectively, and component C is a special aggregate.

## 03 Application

It is used for repairing expansion joint protection strips on highways and bridges, rapid repairs around tram tracks and railway switches, and airport runway maintenance. It can also be used for rapid repairs of potholes and defects in cement or asphalt concrete pavements.

## 02 Features

1. Fast curing speed, curing within two hours, and traffic can be opened in two to three hours;
2. Excellent bonding performance, can bond steel, concrete, wood, glass and other materials;
3. Good mechanical properties, physical and mechanical properties such as compression resistance and bonding are far superior to ordinary cement-based grouting materials;
4. Easy to operate, just mix evenly according to the reference ratio and it can be used;
5. Good anti-aging and medium resistance, can withstand long-term contact corrosion of chemicals such as acid, alkali, salt, grease, etc;

## 03 Basic parameters

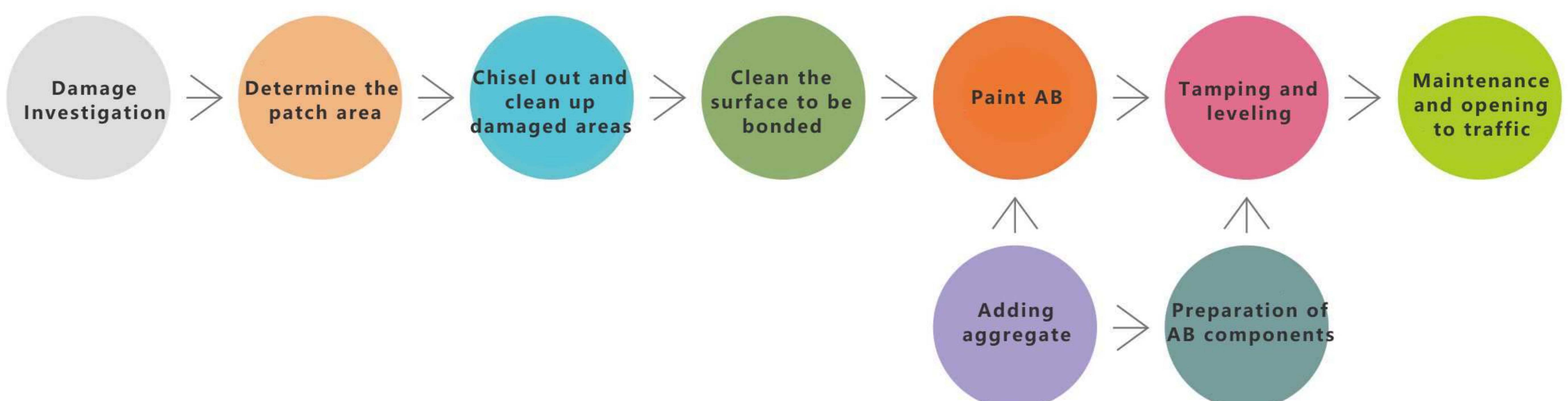
**Table 1: Performance of elastic concrete adhesive (A+B) after curing**

Performance project	Test method	Technical indicators
Trial period (min, 25°C)	GB/T7123.1-2002	15-45
Tensile strength(MPa)	GB/T2567-2008	≥4
Elongation at break (%)	GB/T2567-2008	≥30
Steel to C45 concrete tensile bond strength (MPa)	GB 50728-2011	≥2.5, And it is the cohesive failure of concrete

**Table 2: Properties of elastic concrete (A+B+C) after curing**

Performance project	Test method	Technical indicators
Tensile strength(MPa)	23±2°C, 7d	≥40
Elastic modulus(GPa)	23±2°C, 7d	≤10
Flexural strength(MPa)	23±2°C, 7d	≥10
Bond strength with ordinary concrete (MPa)	23±2°C, 7d	≥1.5, And it is the cohesive failure of concrete
Bond strength with asphalt concrete (MPa)	23±2°C, 7d	≥0.6, And it is the cohesive failure of concrete
Bonding strength to steel (MPa)	23±2°C, 7d	≥1.5

## 05 Technological process



## 06 Construction points

### 1. Chisel out and clean the damaged parts

Cut the area to be repaired into regular shapes, chisel off the old concrete, ensure that all damaged concrete is removed, and the repair depth is not less than 20mm, clean the repair area with an air compressor or other means.

### 2. Clean the surface to be bonded

If there are rusted steel bars in the repair area, rust removal is required and the repair area must be kept dry and free of oil stains.

### 3. Prepare AB components

Prepare a clean glue container and stirring tools, accurately weigh a certain amount of components A and B according to the instructions, and stir evenly in the container;

### 4. Apply AB components

In order to obtain the best bonding performance, a layer of AB components should be evenly applied on the surface of the bonding substrate:

### 5. Incorporation

Aggregate: Pour the prepared AB components into the mixing equipment, add component C in proportion, and stir thoroughly;

### 6. Tamp and level

Pour the mixed elastic concrete into the repair area, compact and level the mortar, and roughen or emboss before curing;

### 7. Maintenance and opening of traffic

At 25°C, the drying and curing time is 2-3 hours. The curing time can be shortened or extended according to the actual temperature on site. If traffic needs to be opened faster, the aggregate can be pre-heated, and the heating temperature should not exceed 80°C.



## 07 Precautions

1. Before construction, the amount of materials should be estimated to avoid waste caused by excessive ingredients;
2. The prepared AB components should be used immediately and cannot be left for a long time.

**Packaging and storage:** Packaging and storage should be carried out in accordance with national regulations. The storage environment should be dry, cool, well-ventilated, avoid high temperatures, and stay away from fire. The packaging container must be kept airtight.

**Effective storage period:** 6 months.

**Packing specification:** 40KG/group.

**Health and Safety:** This product is non-toxic, but it does not rule out the possibility that people with allergic constitutions may have allergic reactions due to contact with this product. Avoid direct skin contact when using. If it accidentally gets on the skin, wash it immediately with a suitable detergent, soap and water. If it splashes into the eyes, rinse thoroughly with water and seek medical treatment immediately.