

# JTB – Polymer Repair Mortar

## 高强聚合物修补砂浆



# 产 品 说 明 书

## Product Manual

### 产品简介

### Product

### introduction

金砵宝高强聚合物修补砂浆专为高标号混凝土结构表面修补而研制。该砂浆是一种既有无机水泥基修补砂浆强度高的特性，又有聚合物砂浆韧性、粘接性和抗裂性性能优良的特点，特别适用于高速铁路客运专线 C50 以上厢式梁及 C55 以上轨道板的表面缺陷修补。

JTB Polymer Repair Mortar is specially developed for surface repair of high-strength concrete structures. This mortar possesses the high strength feature of inorganic cement-based repair mortars, as well as the excellent properties of toughness, adhesion and crack resistance of polymer mortars. It is particularly suitable for surface defect repair of box girders with C50 or above and track plates with C55 or above on high-speed railway passenger lines.

### 产品特点

### Product

### features

- 早强高强
- 防水抗渗
- 粘结力强
- 可在潮湿基层施工
- 绿色环保
- 耐候性好



- Early & high strength
- Waterproof & impermeable
- High bonding strength
- Applicable on damp substrates
- Eco-friendly
- Excellent weather resistance

### 适用范围

### Scope of

### application

- 高速铁路客运专线厢式梁及轨道板等高标号混凝土结构表面缺陷修补；
- 其他要求高强度的混凝土结构的表面修补等。

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### 适用范围

### Scope of

### application

- Repair of surface defects on high-strength concrete for high-speed rail box girders & track slabs;
- Surface repair of other high-strength concrete structures.

### 施工工艺

### Construction

### technology

- **清理基层:** 对厢式梁及轨道板表面的缺陷进行清理, 剔除剥落疏松蜂窝和腐蚀等裂化混凝土, 并用清水冲洗干净。
- **配比搅拌:** 按照 15%水料配比边加水边搅拌金砵宝高强聚合物修补砂浆, 慢速搅拌三分钟左右, 确保充分搅拌均匀即可。
- **施工:** 用抹刀将拌好的金砵宝高强聚合物修补砂浆用力压在修补面上, 一般修补层厚度不超过 30mm, 每次压抹以不超过 10mm 为宜, 待该表层干燥后, 再进行上面一层的施工。
- **参考用量:** 1.5-1.6 吨/m<sup>3</sup>
- **养护:** 修补完成后对裸露的砂浆表面实施阴湿养护 7 天 (参照混凝土养护制度), 然后转为干养 21 天, 即可达到设计强度。
- **Clean the base layer:** Remove the defects on the surface of the box beam and track slab, remove the cracked concrete such as peeling, loose honeycomb and corrosion, and rinse thoroughly with clean water.
- **Mixing ratio:** While adding water to the 15% water-material ratio, stir the JTB Polymer Repair Mortar at a slow speed for about three minutes to ensure thorough and uniform mixing.
- **Construction:** Use a trowel to firmly press the well-mixed JTB Polymer Repair Mortar onto the repair surface. Generally, the thickness of the repair layer should not exceed 30mm, and each application should not exceed 10mm. After the surface layer is dry,

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- proceed with the construction of the upper layer.
- **Reference dosage:** 1.5-1.6 tons per cubic meter
- **Curing:** After the repair is completed, the exposed mortar surface should be subjected to wet curing in the shade for 7 days (refer to the concrete curing system), and then switch to dry curing for 21 days, which can reach the designed strength.

### 包装与储存

### Packaging and storage

#### 包装:

牛皮纸塑膜袋，包装规格为 50 公斤±1 公斤/袋；25 公斤±1 公斤/袋。

#### 储存:

储存在干燥通风处，避免日晒，注意防潮、防水，储存期 6 个月。

#### Packaging:

Kraft paper-plastic film bags, with packaging specifications of 50 kilograms ±1 kilogram per bag; 25 kilograms ±1 kilogram per bag.

#### Storage:

Store in a dry and well-ventilated place, away from direct sunlight. Pay attention to moisture and water prevention. The storage period is 6 months.

### 安全规范

### Safety specification

施工时应佩戴好口罩、护目镜和手套；如果接触到皮肤或眼睛，立即用大量清水冲洗，情况特别严重时应及时就医。

When working, masks, goggles and gloves should be worn properly.

If it comes into contact with the skin or eyes, rinse immediately with plenty of water. Seek medical attention promptly if the situation is particularly serious.

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### 主要 技术指标 Main technical indicators

抗压强度 Compressive strength 7d(Mpa)	抗折强度 Flexural strength 7d(Mpa)	抗压强度 Compressive strength 28d(Mpa)	抗折强度 Flexural strength 28d(Mpa)	抗渗强度 Impermeability strength 28d(Mpa)	与界面剂配 合的拉伸粘 接强度 Tensile bonding strength in combination with interface agents 28d(Mpa)
≥18	≥6.0	≥40	≥10	≥1.5	≥1.5

#### 正拉粘接强度

金砵宝高强聚合物修补砂浆掺有固体的胶粉，故自身的正拉粘接强度在 1.5MPa 左右。考虑到高铁修补砂浆的实际要求，以专用界面剂与之配合使用正拉粘接强度可达 2.5Mpa 以上，本产品内指标≥2.5Mpa。

#### Positive tensile bonding strength

JTB Polymer Repair Mortar is mixed with solid adhesive powder, so its own positive tensile bonding strength is about 1.5MPa. Considering the actual requirements of high-speed rail repair mortar, when used in combination with a special interface agent, the positive tensile bonding strength can reach over 2.5Mpa. The internal indicators of this product are ≥2.5Mpa.



产品施工视频

Product construction video



企业公众号

Enterprise Official Account

Service Hotline: 400-772-5558