

# JTB-Geopolymer Grout

## 地聚物注浆料



# 产 品 说 明 书

## Product Manual

### 产品简介

### Product

### introduction

金砵宝地聚物注浆料又叫地聚合物注浆料，具有高强度、高韧性、防渗扛漏、耐久性好、流动性好等特点；是针对地下溶洞填补注浆、基础塌方、孔洞修复、情况注浆用的高强聚合物材料，也属于公路路基与地面基层非开挖微创快速注浆加固材料。

JTB Geopolymer Grout features high strength, high toughness, anti-seepage and leak-proof properties, good durability and excellent fluidity.

It is a high-strength polymer material used for filling and grouting underground karst caves, foundation collapses, hole repair, and environmental grouting.

It also belongs to the category of non-excavation, minimally invasive, and rapid grouting reinforcement materials for highway subgrades and ground bases.

### 产品特点

### Product

### features

- 流动性好，强度高
- 耐久性好
- 饱满早强、微膨胀
- 高充盈性
- 与混凝土粘结牢固



- Excellent Flowability & High Strength
- Excellent Durability
- Strength with Micro-Expansion
- High Filling Capacity
- Strong Bond with Concrete

### 适用范围

### Scope of

### application

- 地下溶洞填补注浆、基础塌方、孔洞修复、公路塌陷、路基空鼓、隧道塌方等。
- 地基加固：地聚合物注浆料能够填充土壤空隙，提高地基的承载能力和稳定性，有效减少地基沉降和下陷。

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- 适用范围**
- Underground cave filling grouting, foundation collapse, hole repair, highway collapse, roadbed hollowing, tunnel collapse, etc.
- Scope of application**
- Foundation reinforcement: Geopolymer Grouts can fill soil voids, enhance the bearing capacity and stability of the foundation, and effectively reduce foundation settlement and subsidence.

- 施工工艺**
- **基面处理:** 施工前, 将基层表面的浮灰、油脂、松散物质清理干净, 确保基面干净整洁、坚固平整。检查注浆设备是否完好无损, 确保无误后进行下一步操作;
  - **钻孔:** 根据设计要求, 使用钻机在需要进行注浆的部位进行钻孔, 钻孔深度和直径要符合设计要求。
  - **注浆管设置:** 在钻好的孔中插入注浆管, 确保注浆管到达孔底, 并在注浆管周围填充适量的干硬性水泥砂浆。
- Construction technology**
- **注浆:** 将金砵宝地聚物注浆料材料按照水料比 28%-30%的比例混合均匀, 然后通过注浆泵将注浆材料注入注浆管, 直至注满为止。
  - **养护:** 注浆完成后, 对注浆部分进行养护, 一般养护时间不少于 7 天。
  - **Base surface treatment:** Before construction, thoroughly clean the loose dust, grease and loose substances on the base surface to ensure that the base surface is clean, tidy, solid and flat. Check whether the grouting equipment is intact and undamaged. After ensuring there are no errors, proceed to the next step.
  - **Drilling:** According to the design requirements, use a drilling rig to drill holes at the locations where grouting is needed. The depth and diameter of the drilled holes must comply with the design requirements.

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### 施工工艺

### Construction technology

- **Grouting pipe setting:** Insert the grouting pipe into the drilled hole, ensuring that the grouting pipe reaches the bottom of the hole, and fill an appropriate amount of dry-hard cement mortar around the grouting pipe.
- **Grouting:** Mix the JTB Geopolymer Grout evenly according to a water-to-material ratio of 28%-30%. Then, use the grouting pump to inject the grouting material into the grouting pipe until it is completely filled.
- **Curing:** After the grouting is completed, the grouting part should be cured. Generally, the curing period should be no less than 7 days.

### 包装与储存

### Packaging and storage

本品袋装，40kg/袋；  
密封存储，阴凉干燥处储存。  
存放时间不宜超过 6 个月。  
This product is bagged, 40kg per bag.  
Store in a sealed container in a cool and dry place.  
The storage period should not exceed 6 months.

### 安全规范

### Safety

### specification

该产品为无毒、不燃产品，可按非危险品运输。  
该产品自生产之日起，保质期为 6 个月。  
超过保质期重新检验合格后方可使用。  
This product is non-toxic and non-flammable and can be transported as a non-hazardous material.  
The shelf life of this product is 6 months from the date of production.  
It can only be used after being re-inspected and found to be qualified beyond the expiration date.

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|  |   |       |       |       |       |     |     |      |
|--|---|-------|-------|-------|-------|-----|-----|------|
| 主要<br>技术指标<br>Main technical<br>indicators | 28d抗压强度<br>Compressive strength of<br>28 days | MPa   | 3d    | 7d    | 28d   | 1d  | 3d  | 28d  |
|  |   |       | ≥20.0 | ≥40.0 | ≥50.0 | 34  | 51  | 60   |
|  | 28d抗折强度<br>28-day flexural strength           | MPa   | 1d    | 3d    | 28d   | 1d  | 3d  | 28d  |
|  |   |       | ≥5    | ≥6    | ≥10   | 5.5 | 7.3 | 10.5 |
|  | 含气量<br>Gas content                            | %     | 1-3   |       |       | 1.3 |     |      |
|  | 24自由泌水率<br>24 Free bleeding rate              | %     | 0     |       |       | 0   |     |      |
| 压力泌水率<br>Pressure bleeding<br>rate         | %   | ≤2.0  |       |       | 1     |     |     |      |
| Cl离子含量<br>Cl ion content                   | %   | ≤0.06 |       |       | 0.015 |     |     |      |



产品施工视频

Product construction video



企业公众号

Enterprise Official Account

Service Hotline: 400-772-5558