

JTB-Gravity Grouting Mortar

重力砂浆



产 品 说 明 书

Product Manual

产品简介

金砵宝重力砂浆是一种由优质水泥、精选骨料、进口高分子聚合物和添加剂等配制而成的填充砂浆，它通过重力方式能快速自动流平灌注，加快施工进度。

Product introduction

JTB Gravity Grouting Mortar is a filling mortar made of high-quality cement, carefully selected aggregates, imported high-molecular polymers and additives, etc. It can quickly and automatically level and pour through gravity, accelerating the construction progress.

产品特点

Product features

- 早强高强
- 自流性高
- 自密实性
- 可冬季施工
- 微膨胀性
- 耐久性强



- Early & high strength
- High self-flow
- Self-compacting
- Suitable for winter construction
- Slight expansion
- High durability

适用范围

Scope of application

- 适用于混凝土梁柱界面加大加固补强；
- 适用于机器底座、地脚螺栓等设备基础灌浆；
- 建筑物的梁、板、柱、基础、地坪和道路的补强、抢修、加固；
- 地铁、隧道、地下等工程逆作法施工缝的嵌固；
- 以及钢结构（钢轨、钢架、钢柱等）与基础固定连接的二次灌浆。
- Reinforcement & strengthening of concrete beam-column interfaces;
- Grouting for machinery bases & anchor bolts;
- Repair, strengthening & reinforcement of beams, slabs, columns, foundations, floors & roads;

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适用范围	● Embedding construction joints in subways, tunnels & underground works;
Scope of application	● Secondary grouting for fixing steel structures (rails, frames, columns) to foundations.

施工工艺	● 清理基层: 清理灌浆空间, 去除表面浮灰、油脂及疏松部分并提前将混凝土表面充分润湿;
Construction technology	● 支模: 支设模板并用水泥(砂)浆、塑料胶带封堵模板连接处以确保不漏水、漏浆;
	● 配比和搅拌: 将金砵宝重力砂浆重量的13-15%加水量加水搅拌(机械搅拌2-3分钟, 人工搅拌5分钟以上);
	● 施工: 将搅拌均匀的金砵宝重力砂浆从一个方向灌入灌浆部位, 必要时可借助竹条或钢钎导流, 可适当振捣或轻轻敲打模板;
	● 养护: 施工完毕初凝后应立即喷洒养护剂或覆盖塑料薄膜并加盖草帘或棉被阴湿养护 7 天即可。
	● 使用温度为-10°C至 40°C。严禁在灌浆料中掺入任何外加剂或外掺料。
	● 参考用量: 以 2.2-2.4 吨/立方米的依据, 计算实际使用量。
	● Clean the base layer: Clear the grouting space, remove surface loose dust, grease and loose parts, and fully wet the concrete surface in advance.
	● Formwork erection: Set up the formwork and seal the connection points of the formwork with cement (sand) slurry and plastic tape to ensure no water or slurry leakage.
	● Proportioning and mixing: Add 13-15% of the weight of the JTB Gravity Grouting Mortar with water and stir (mechanically stir for 2-3 minutes, manually stir for more than 5 minutes).

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施工工艺

Construction technology

- **Construction:** Pour the well-mixed JTB-Gravity Grouting Mortar into the grouting area from one direction. If necessary, use bamboo strips or steel rods to guide the flow. The formwork can be appropriately vibrated or gently tapped.
- **Curing:** After the construction is completed and the concrete begins to set, it should be immediately sprayed with a curing agent, or covered with plastic film and then covered with a layer of straw mats or quilts for 7 days of damp curing.
- The operating temperature range is -10°C to 40°C . It is strictly prohibited to add any admixtures or external admixtures to the grouting material.
- **Reference usage:** Calculate the actual usage based on 2.2-2.4 tons per cubic meter.

包装与储存

Packaging and storage

本品为袋装：50±0.5kg/袋；

存放在通风干燥处并防止阳光直射，保质期为6个月，超出保质期应复检合格后方可使用。

This product is bagged: 50±0.5kg per bag.

Store in a well-ventilated and dry place, away from direct sunlight. The shelf life is 6 months. If it exceeds the shelf life, it should be re-inspected and found qualified before use.

安全规范

Safety specification

本产品含有化工成份，对眼睛及皮肤有刺激，因此请您在施工时穿戴必要的防护工具。如不慎溅入眼睛，请立即用大量清水清洗，并及时就医。

This product contains chemical components and can irritate the eyes and skin. Therefore, please wear necessary protective equipment during construction. If it accidentally splashes into your eyes, rinse immediately with plenty of water and seek medical attention promptly.

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项目 Project 型号 Model	抗压强度(MPa) Compressive strength (MPa)			竖向膨胀率 (%) Vertical expansion rate (%)	流动度 (mm) Fluidity (mm)	坍落度 (mm) Slump (mm)	钢筋粘结强度(MPa) Reinforcing bar bonding strength (MPa)		最大骨料粒 径 Maximum aggregate particle size
	1d	3d	28d				圆钢 Round steel	螺纹钢 Rebar	
通用加固型 General-purpose reinforced type	20-35	45-55	55-75	≥0.02	>300	—	≥6	≥13	6-8目 6-8 eyes
豆石加固型 Pebble reinforced	20-35	40-55	55-75	≥0.02	—	>270	≥6	≥13	豆石 Bean stone
超流态型 Superfluid state type	15-30	27-45	55-65	≥0.02	>320	—	≥6	≥13	20-38目 20-38 eyes
—	4h	1d	28d	—	—	—	可操作时间 Operable time	—	—
抢工期 Rush worker type	≥15	20-45	55-75	≥0.02	>270	—	20min	—	6-8目 6-8 eyes

符合 GB/T50448-2015 《水泥基灌浆材料应用技术规范》标准技术指标。

主要

技术指标

Main technical indicators

It complies with the technical indicators of the GB/T50448-2015 "Technical Specification for Application of Cement-based Grouting Materials" standard.

拆模和养护时间及环境温度的关系:

The relationship between formwork removal and curing time and ambient temperature:

日最低气温(°C) Daily minimum temperature (°C)	拆模时间(h) Demolding time (h)	养护时间(h) Curing time (h)
-10~0	96	14
0~5	72	10
5~15	48	7
≥15	24	7



企业公众号

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