

# JTB-Rail Spike Anchoring Grout

## 道钉锚固剂



# 产 品 说 明 书

## Product Manual

### 产品简介

### Product introduction

金砵宝道钉锚固剂为无机混合料，具有快硬、高强、微膨胀、冷操作施工和对环境无污染等特点。省去了硫磺锚固道钉时需要熬制加热的工序，避免出现混凝土轨枕、桥枕因局部受热可能产生裂缝和降低道钉使用寿命的情况。

符合执行标准：TB/T2093-2002

JTB Rail Spike Anchoring Grout is an inorganic mixture, featuring fast hardening, high strength, slight expansion, cold operation and construction, and no pollution to the environment. It eliminates the need for the process of boiling and heating when using sulfur to anchor road studs, avoiding the situation where concrete sleepers and bridge sleepers may crack due to local heating and the service life of road studs may be reduced.

Compliant with the execution standard: TB/T2093-2002

### 产品特点

### Product features

- 早强、高强
- 自流性高
- 微膨胀性
- 耐久性
- 冷操作施工和对环境无污染



- High Early Strength & High Final Strength
- Excellent Self-Flowability
- Micro-Expansion
- Excellent Durability
- Cold Application & Environmentally Friendly

### 适用范围

### Scope of application

- 铁路混凝土轨枕、桥枕的道钉锚固，装配式桥梁胶结接头、机械设备地脚螺栓的锚固；
- 铁路、隧道、引水隧道、煤矿、桥墩加固、房屋抗震、冶金矿山等地下工程用锚杆进行支护围岩的快速施工，以及混凝土结构加固工程中牵钉的锚固，并可满足钢筋焊接要求。

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### 适用范围

### Scope of application

- Anchoring of railway concrete sleepers and bridge sleepers with track nails, and anchoring of cemented joints of prefabricated Bridges and anchor bolts of mechanical equipment.
- Anchor rods are used for rapid construction of supporting surrounding rock in underground projects such as railways, tunnels, water diversion tunnels, coal mines, bridge pier reinforcement, building seismic resistance, metallurgical mines, etc., as well as for anchoring nails in concrete structure reinforcement projects, and can meet the requirements of steel bar welding.

### 施工工艺

### Construction technology

- **清理基材:** 清除预留孔中的粉尘及杂物。
- **放置锚固架:** 用刮浆棒（圆头）顶住锚固架底部，并与预留孔成 45 度，将锚固架置于孔中。锚固架定位板开口部位朝向轨枕挡肩，以便于放置挡板座。
- **配比和搅拌:** 称取金砵宝道钉锚固剂，以及其重量 12% 的水，充分搅拌均匀，搅拌时间大约为 3 分钟。
- **施工:** 用灌浆勺（或拌浆勺）将搅拌好的浆液从锚固架中间灌入预留孔，据孔顶约 2 公分即可。灌浆后，应尽快旋转插入绝缘螺栓道钉，用刮浆棒（扁头）将溢出的浆液刮除并压平。
- **养护:** 锚固一天后即可上道使用，有条件时，在锚固后 1~3 天喷水养护。
- **Clean the base material:** Remove dust and debris from the reserved holes.
- **Place the anchor frame:** Use a trowel (round head) to hold the bottom of the anchor frame at a 45-degree Angle to the reserved hole, and then place the anchor frame in the hole. The opening part of the anchor frame positioning plate faces the sleeper shoulder to facilitate the placement of the baffle seat.

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- **Mixing and stirring:** Weigh the JTB Rail Spike Anchoring Grout and 12% of water by weight, and stir them thoroughly for about 3 minutes.
- **Construction:** Use a grouting spoon (or a mixing spoon) to pour the well-mixed grout into the reserved holes from the middle of the anchor frame, about 2 centimeters from the top of the holes. After grouting, the insulating bolts and road studs should be rotated and inserted as soon as possible. The overflowing grout should be scraped off and flattened with a scraper (flat head).
- **Maintenance:** It can be used on the road one day after anchoring. If conditions permit, spray water for maintenance 1 to 3 days after anchoring.

### 注意事项

### Precautions

一次拌浆数量以在 30min 内用完为宜，搅拌时间为 2~5min。

施工作业中必须掌握好流动度和稠稀度，当在灌注过程中流动度降低时，可少加一点水拌合后继续使用。

冬季施工(最低气温在-10℃以上)，可用 40~50℃热水拌合锚固剂，必要时覆盖塑料薄膜或其它保温材料防冻。

The amount of slurry mixed at one time should be used up within 30 minutes, and the stirring time should be 2 to 5 minutes.

During the construction operation, it is essential to master the fluidity and thickness well. When the fluidity decreases during the pouring process, a little less water can be added and mixed before continuing to use.

During winter construction (when the lowest temperature is above -10℃), the anchoring agent can be mixed with hot water at 40 to 50℃. If necessary, plastic film or other insulation materials should be covered to prevent freezing.

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### 包装与储存

### Packaging and storage

标准包装规格为:50 公斤±1 公斤/袋; 25 公斤±1 公斤/袋。

无毒、味、不燃、不爆,可按一般货物运输。

本品宜储存在干燥、阴凉处,储存期为 6 个月。

The standard packaging specifications are: 50kg±1kg per bag;

25kg±1kg per bag.

Non-toxic, odorless, non-flammable and non-explosive, it can be transported as general cargo.

This product should be stored in a dry and cool place, and its shelf life is 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,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.

### 主要

### 技术指标

### Main technical

### indicators

执行标准: TB/T2093-2002

Execution standard: TB/T2093-2002

技术参数 Technical parameters

抗压强度 (Mpa) Compressive strength (Mpa)			道钉抗拔力 (KN) The pull-out resistance of road studs (KN)
4 小时	1 天	3 天	
>20	>35	>50	>60



产品施工视频

Product construction video



企业公众号

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