

Steel Plate Bonding Adhesive

JTB-503 环氧树脂粘钢胶



产 品 说 明 书

Product
Manual

产品简介

JTB-503 环氧树脂粘钢胶具有粘接强度高、如同预埋，常温固化、硬化过程收缩小，耐温性能好、可在埋筋后焊接，耐久性、耐候性好，抗老化、耐介质（酸、碱、水）性能好等特点。

Product

introduction

JTB-503 Steel Plate Bonding Adhesive features high bonding strength, similar to pre-embedding, curing at room temperature, small shrinkage during the hardening process, good temperature resistance, the ability to be welded after embedding bars, excellent durability and weather resistance, as well as good anti-aging and resistance to media (acids, alkalis, water).

产品特点

Product

features

- 强度高、粘接力强
- 韧性高、抗冲击性能强
- 耐老化
- 耐酸碱
- 收缩率低



- High strength & strong adhesion
- High toughness, impact resistant
- Aging resistant
- Acid & alkali resistant
- Low shrinkage

适用范围

Scope of

application

- 应用于粘贴梁、柱等各种预制构件；
- 应用于各种构件裂纹的加固施工；
- 应用于粘接钢板与梁表面的加固施工,以提高负载能力；
- 应用于托架、楼梯、人行道边石等有关建筑构件、建筑材料、装修材料的粘接施工。
- Bonding precast beams, columns, and other structural elements;
- Strengthening cracks in various components;

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适用范围

- Bonding steel plates to beams to enhance load capacity; ;

Scope of application

- Adhesive applications for brackets, stairs, sidewalks, and other building & finishing materials.

施工工艺

Construction technology

- **清理基层:** 对混凝土表面进行处理打磨, 使粘接面干燥无油污、灰尘, 对被粘接钢板表面进行除锈处理。
- **配比和搅拌:** 配胶前分别将甲、乙组分搅拌均匀, 再按甲组份:乙组份=3:1 的比例称量后倒入准备好的干净容器内, 进行充分搅拌至色泽均匀。
- **施工:** 将搅拌均匀的胶水分别涂抹在已处理好的混凝土及钢板粘接面, 中间厚, 边缘薄, 然后将钢板粘接于预定位置。
- 钢板粘接好后应立即用卡具支撑, 螺栓等工具固位, 并适当加压, 以使胶水刚好从钢板边缘挤出为度。固化后, 卸去加压固定设施, 三天后可受力使用。
- **Clean the base layer:** Grind and treat the concrete surface to make the bonding surface dry and free of oil stains and dust, and remove rust from the surface of the steel plates to be bonded.
- **Mixing and stirring:** Before preparing the adhesive, stir the components A and B evenly respectively. Then, weigh the components A and B in a ratio of 3:1 and pour them into a prepared clean container. Stir thoroughly until the color is uniform.
- **Construction:** Apply the well-mixed adhesive to the treated concrete and steel plate bonding surfaces respectively, with a thicker layer in the middle and a thinner layer at the edges. Then, bond the steel plates to the predetermined positions.

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施工工艺
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After the steel plates are bonded, they should be immediately supported with clamps, fixed in position with tools such as bolts, and appropriate pressure should be applied to ensure that the glue just extrudes from the edge of the steel plates. After curing, remove the pressure-fixing facilities and it can be put into service under load.

包装规格
Packaging

AB 组分桶包装：A 组分 15kg/桶、B 组分 5kg/桶。
Supplied in drums with Component A (15kg per drum) and Component B (5kg per drum).

安全规范
Safety
specification

若不慎弄到皮肤或衣物上，可用丙酮清洗并用大量清水冲洗；若不慎食用或溅入眼睛，应立即就医。
If it accidentally gets on the skin or clothes, it can be washed with acetone and rinsed with plenty of water. If swallowed accidentally or splashes into the eyes, seek medical attention immediately. If Accidentally ungested or splashed into the eyes, seek immediate medical attention.

运输储存
Transportation
and storage

本品应密封储存在环境温度 0℃~40℃ 的干燥洁净库房内；
本品在常温下储存 12 个月，各性能均无明显变化，如超出 12 个月，经检测合格，仍可使用；
本品为非危险品，可以通过民航、铁路、海运、公路连运托运；
乙组份在长期贮存过程中容易出现变色现象，属正常不影响产品基本性能和使用。
This product should be stored in a sealed condition in a dry and clean warehouse with an ambient temperature ranging from 0℃ to 40℃.
This product shows no significant changes in its properties when stored at room temperature for 12 months. If the storage period exceeds 12 months;

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It can still be used after passing the inspection.

运输储存

This product is non-hazardous and can be consigned by civil aviation, railway, sea and road.

Transportation

and storage

Component B is prone to discoloration during long-term storage, which is normal and does not affect the basic performance and usage of the product.

主要

技术指标

Main technical

indicatorsn

性能	项目	试验条件	技术条件
弯曲强度胶体性能	拉伸强度 Mpa	25℃ 三天	≥30
	压缩强度 Mpa	25℃三天	≥65
粘接能力	受拉弹性模量 Mpa	25℃ 三天	4.0×10 ³
	钢-钢剪切强度 Mpa	25℃ 三天	≥15
	钢-钢拉伸强度 Mpa	25℃ 三天	≥35
	钢-钢不均匀扯离强度KN/m	25℃三天	≥20
	钢-混凝土正拉粘接强度 Mpa	25℃ 三天	≥2.5且混凝土内聚破坏
耐老化性能	施工环境温度	℃	5-35℃
	不挥发物含量(固体含量)	%	≥99
	人工湿热老化抗剪性能	2000h	强度下降≤10%

Performance	Project	Test conditions	Technical conditions
Bending strength colloid properties	Mild stretching Mpa	25°C for three days	≥30
	Compressive strength Mpa	25°C for three days	≥65
Bonding ability	Tensile elastic modulus Mpa	25°C for three days	4.0x10 ³
	Steel-steel shear strength Mpa	25°C for three days	≥15
	Steel - Tensile strength of steel Mpa	25°C for three days	≥35
	Steel-steel uneven tear strength KN/m	25°C for three days	≥20
	Steel-concrete positive tensile bond strength Mpa	25°C for three days	≥2.5 and concrete cohesion failure
Aging resistance performance	Construction environment temperature	°C	5-35°C
	Non-volatile matter content (solid content)	%	≥99
	Artificial wet heat aging shear resistance performance	2000h	The strength decrease is ≤10%



产品施工视频

Product construction video



企业公众号

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