



Bridge Bearing Grouting Material

High-strength non-shrink cement & epoxy grouting material for bridge bearings

Product Description

Bridge Bearing Grouting Material is a high-performance cement-based or epoxy resin-based grout designed for precision grouting under bridge bearings. It ensures reliable load transfer, high early and long-term strength, excellent flowability and non-shrink performance. The material provides durability, impermeability and bonding to extend the service life of bridge structures.

Key Features & Benefits

- High early and long-term strength, compressive strength ≥ 60 MPa at 28 days.
- Excellent flowability, easy placement under narrow gaps and reinforcement.
- Non-shrink expansion, ensures tight contact and stable support.
- Durability against freeze-thaw, chemicals and permeation.
- Available in cement-based and epoxy resin-based formulations.

Product Parameters

Cement-Based Grouting Material	Performance
Flowability (mm, initial/30min)	$\geq 320 / \geq 280$
Setting time (min, initial/final)	$\geq 30 / \leq 180$
Bleeding rate (%)	0
Compressive strength (MPa, 24h)	≥ 50 (Early Strength I) / ≥ 40 (Early Strength II) / ≥ 20 (Normal)
Compressive strength (MPa, 28d)	≥ 60
Flexural strength (MPa, 28d)	≥ 10 (Early Strength) / ≥ 6 (Normal)
Elastic modulus (GPa, 28d)	≥ 30
Expansion rate (%)	0.1–2.0 (3h)

Epoxy Resin-Based Grouting Material	Performance
Flowability (mm, initial/30min)	$\geq 230 / \geq 200$
Setting time (min, initial)	≥ 60
Compressive strength (MPa, 28d)	≥ 90
Flexural strength (MPa, 28d)	≥ 25
Elastic modulus (GPa, 7d)	≥ 15
Bond strength (MPa, 28d)	≥ 3.5
Linear shrinkage (%) 48h	≤ 0.05
Effective bearing capacity (%)	≤ 85

Product Usage

- Precision grouting under bridge bearing plates to ensure full contact and load transfer.
- Anchor zones, column bases and heavy equipment foundations.
- Reinforcement and repair of deteriorated or voided bearing grout layers.
- Epoxy grout for chemical, marine and heavy-duty structures requiring superior bonding and durability.

Packaging & Storage

- Cement-based grout: 40 kg bags.
- Epoxy resin grout: packed in A:B:C = 30:10:160 ratio, total 40 kg.
- Store in cool, dry conditions; protect from moisture and damage during transport.
- Shelf life: 6 months in unopened packaging.

Disclaimer

The information provided in this Technical Data Sheet is based on laboratory tests and field experience and is offered in good faith. Sino-sina Building Materials Co., Ltd. makes no warranty of results obtained under conditions beyond its control. Users should conduct trial mixes and confirm the suitability of the product for their specific applications.