

MIXSET NS

Non shrink anchoring grout

Mixset NS is a premixed cementitious non-shrink anchoring grouting system specially formulated to produce a high performance, pourable grout with high strength and slightly expansive properties. It is a blend of Portland cement, graded fillers and chemical additives, which impart controlled expansion in the plastic, state which whilst minimizing water consumption.

Appropriation

Repair of pre-cast concrete
Floor repairs and toppings
Heavy equipment and machinery foundations
Bedding bearing plates and grouting
Pre fabricated unit joints and cable grouting
For anchoring of holding down bolts hooks etc.

Characteristics

- Adjustable consistency & free flowing shrinkage compensated
- Excellent bond strength & High strength characteristics for rapid result
- Impact resistance & non shrink property of the grout provides maximum contact with bearing surface
- Can be used up to 80mm thickness between plate and foundation
- Watertight and withstands chemically aggressive agents
- Non-shrink property of the grout provides maximum contact with bearing surface

Technical Data and Properties

Standards conform: ASTM C 579, ASTM C 580, BSEN 12390

Appearance: Powder

Colour: Gray and white

Apparent density: 1.4

Setting time:

Initial: 4 hours@25°C

Final: 8 hours@25°C

Grain size: Up to 0.8mm

Adhesion on concrete: 26.80 bar

<u>Days</u>	<u>Compressive strength at 25 °C (ASTM C 579)</u>
1	28.0 N/mm ²
3	35.0 N/mm ²
7	50.0 N/mm ²
28	60.0 N/mm ²

<u>Days</u>	<u>Flexural strength at 25 °C (ASTM C 580)</u>
3	6.0 N/mm ²
7	8.50 N/mm ²
28	9.40 N/mm ²

Bond strengths:

Bond to concrete after 28 days: 6.5N/mm²

Bond to steel

For plain bars	For deformed bars
7 days: 3N/mm ² 28 days: 4N/mm ²	7 days: 3N/mm ² 28 days: 4N/mm ²

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Product Management

Surface preparation: The surface should be clean, free of dust or de-moulding agents, oil, paint etc. Clean the area to be grouted with water 24 hours prior to grouting. The surface should be damp, but strictly free of standing water. The bolt holes and other areas should be water free; the formworks should be leak proof

Mixing: Mix the powder with measured quantity of water (5 to 6 litres water for 25kg powder). A minimum of 5 minutes to obtain a smooth, uniform lump free consistency. Pour the grout continuously to avoid air pockets. For a thick consistency 4 to 5 litres of water is to be used. For dry packs 2.5 to 3 litres of water is sufficient

Cleaning: Tools should be cleaned with water after use

Packing & Storage

Mixset NS is available in 10 kg bags. For site installations or mass consumptions, deliveries shall be made in bulk custom-designed containers. Mixset NS should be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life

Health & Safety

Mixset NS contains no hazardous substances. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any contact to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each Fab product

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THE CONSTRUCTION CHEMIST

Technical information given in this datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity, etc. and porosity of substrate may impinge on the values.

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