

MIXSET PA

Expansion admixture for Grout systems

Mixset PA is an admixture for cementitious grouts where a reduced water / cement ratio and positive expansion is required. Applications include bed grouting, duct grouting, non-shrink infilling and jointing. Mixset PA is in powder form, combination of a plasticizing agent and a gas producing expansion medium. The plasticizing agent allows the use of a reduced water / cement ratio with consequent increased strengths and durability. The expansive medium counteracts the natural settlement and plastic shrinkage of the grout and aids stability and cohesion.

Appropriation

Bridge decks
Floors
Tunnels
Basements
Beams
Underpasses
Columns

Characteristics

- Reduced water cement ratio mixes in the grout mix ensure low permeability and long term durability in service
- Produce high fluidity for grouts with low water / cement ratio, thus making placement or injection of the grout easy
- No metallic iron content to corrode and cause staining or deterioration due to rust expansion in the grout
- Composition allows high early strength development in grouts, without the use of chloride
- Watertight and withstands chemically aggressive agents
- Non-shrink property of the grout provides maximum contact with bearing surface
- Reduced water / cement ratio mixes in the grout mixture ensures low permeability and long term durability in service
- Expansion by gas reduces the plastic shrinkage and settlement in properly designed cementitious grout

Technical Data and Properties

Standards conform: BS 8110 Part 1, 1985

Appearance: Powder

Colour: Gray

Setting time:

Chloride content: Nil to BS5075

Adhesion on concrete: Excellent

Compressive strength:

The plasticizing action of Mixset PA allows reduction of the water / cement ratio of cementitious grouts whilst maintaining flow properties. This gives improvement in strength and long term durability when cured under restraint.

Expansion characteristics:

The controlled positive expansion in unset grouts incorporating Mixset PA overcomes plastic settlement when measured in accordance with ASTM C827. An unrestrained expansion of up to 4% is typical

Time of expansion:

15 minutes to 2hours@around 20⁰C, above this temperature may slightly reduce the time

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Compatibility:

Mixset PA is compatible with all types of Portland cement. And may be used in mixes containing certain other concrete admixtures. Please note that Mixset PA not compatible with Alumna cement

Setting time:

Mixset PA does not affect the setting times of cement based grouts

Product Management

Surface preparation: The surface should be clean, free of dust or de-moulding agents, oil, paint and pre wetted. Place the grout within 20 minutes of mixing to gain the full benefit of the expansion process. Adopt usual placing or pumping procedures ensuring a continuous operation

Mixing: Mix with a slow speed drill fitted with a high shear paddle. The selected water content should be accurately measured into mixer. Slowly add the cement (sand if required) and Mixset PA. Mix for 5 minutes to obtain a smooth even consistency

Dosage rates

<u>Water</u>	<u>Cement</u>	<u>Sand</u>		<u>Mixset PA</u>	<u>Approx yield</u>
20-22ltr	50kg	-----		225gm	36ltr
22-24ltr	50kg	50kg		225gm	57ltr

Cleaning: Tools should be cleaned with water after use

Packing & Storage

Mixset PA is available in 5 kg bags. For site installations or mass consumptions, deliveries shall be made in bulk custom-designed containers. Mixset PA 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 PA 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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