

REC PLAST ZA-21

High performance expanding & plasticizing admixture

PRODUCT

Rec Plast za-21 is an admixture for cementitious grout when an expansion is required. Rec Plast za-21 is highly recommended for use in bedding, cable grouting, filling cracks, jointing, duct grouting, and void filling. Rec Plast za-21 produces controlled expansion in cement grouts and maintains high water retention. Rec Plast za-21 also allows reduction of water content which increases compressive strength of the grout. Rec Plast za-21 may be used in conjunction with certain other Reckon additives, prior trials are required.

PROPERTIES

- Expanding effect
- Suitable for mortar and concrete
- Water reducer which improves grout strength
- Ready to be mixed with 50 kg cement bag
- Plasticizing effect for a free-flowing grout
- Does not contain metallic iron: no risk of corrosion or deterioration due to rust expansion in the grout
- Production of non-shrinking high strength grout designed for post-tensioned cables

CHARACTERISTICS

Composition	Specific additives.
Appearance	Off white powder.
Chloride content	NIL
VOC	< 0.01 %, ASTM D2369

Type of cement	Water % by weight of cement	Flow cone test ASTM C 939 Efflux time (s)	Bleed water ASTM C 939	Expansion ASTM C 939
OPC ASTM C-150 Type 1	38	22-32	0.3% @ 3 Hrs.	0-5% @ 24 Hrs.

Compressive strength 7 days (Mpa)	Compressive strength 28 days (Mpa)
30-35	>50

INSTRUCTIONS FOR USE

When used in cement grout Prepare a homogenous mixture with 50 kg cement + 18 to 20 liters of potable water + 3 kg Rec Plast za-21. Mix well for few minutes until the admixture has been completely dispersed. The grout should be poured within 20 minutes of mixing. The cavity to be filled must be clean, sound, dust free, and free from oil. Injection equipment can be used for cement grouting. The work area should be protected from direct sunshine or high wind.

When used in concrete

3 kg of Rec Plast za-21 should be added for each batch of ready-mix concrete containing 50 kg Portland cement. Mix well for an additional 4 minutes to achieve complete dispersion of the admixture.

The concrete should be placed immediately.

The work area should be protected from direct sunshine or high wind.

PACKAGING

Rec Plast za-21 is packed in 3 kg bag, ready to be mixed with 50 kg bag of cement.

STORAGE

12 months after manufacturing date in original and non-open packaging, under cover, in dry condition, away from humidity, protected from extreme temperatures and direct sunlight.

SAFETY PRECAUTIONS

The product contains very fine powder which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning thoroughly with soap and water. In case of contact with eyes, wash thoroughly with clean water and seek medical attention. If swallowed, do not induce vomiting and seek medical attention. The product is non-flammable.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office.

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