

CAT. No. GRT-01-2509

ISOLA-NSA

Expansive Grout Additive

ISOLA-NSA is a powder blend of expansive agent, plasticizers and filler and primarily used as an additive for expansive cementitious grout. It is directly added to plain cement or cement-sand mixtures to create fluid pumpable expansive grout which is intimately in contact with the surrounding substrate. The plasticizer content reduces water demand resulting in more stronger grout.

USES

Typical applications include cable duct grouting in precast-prestressed concrete, cavities/ hole filling and other applications where a pumpable, medium strength, non-shrink grouting are required. For high strength, precision pre-packed grouting, use **ISOGROUT 55** or **NS GROUT 65**.

TYPICAL PROPERTIES

- | | |
|-----------------------------------|---|
| 1. Compressive Strength @ 28 Days | |
| - Neat Cement (w/c: 0.31) | 35 N/ sq.mm |
| - Mortar (1.1; w/p: 0.24) | 40 N/ sq.mm |
| 2. Unrestrained Expansion | 1 to 4% |
| 3. Setting Time | Does not appreciably affect setting time. |
| 4. Maximum Expansion | Within 2 hours |

TYPICAL MIX PROPORTION

OPC	ASTM C33 SAND (DRY)	WATER	NSA	APPROXIMATE YIELD
50 Kg	-	15.5 liters	225 grams	31 liters
50 Kg	50 Kg	24 liters	225 grams	58 liters

ADVANTAGES

- Positive expansion
- Fluid pumpable consistency
- Does not contain chlorides
- Reduced water – cement ratio

DIRECTIONS FOR USE

Mechanical mixing is essential. Use mixer with rotating paddles inside a stationary drum as opposed to free-fall mixers. Alternatively, an electric drill filled with a special paddle running at 300 RPM can be used. First, put the required amount of water into the mixer/ container then add cement (and sand if required). Mix until the cement has been completely dispersed then add NSA and continue mixing for at least 2 minutes until grout has uniform consistency.

PACKING/ COVERAGE

ISOLA NSA is packed in 225 grams container and incorporated in grout mixtures at the rate of 225 grams per 50 kg bag cement.

STORAGE / SHELF LIFE

Twelve months minimum in original unopened container stored in covered condition.

HEALTH SAFETY

NSA is non-hazardous but being a powder, users are advised to wear dust mask. Refer to MSDS for more safety instructions.

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Technical information, data are to be considered as typical values and not sales specification. Actual measured values may vary due to factors beyond our control. Indications concerning function and application of the products are empirical. Although the information is believed to be accurate, there is no warranty by ISOLA. None of the recommendations becomes part of the warranted quality of the products. Due to the fact that the conditions of individual use are beyond ISOLA's direct and continuous control, ISOLA disclaims all responsibility in connection with the use of its products and does not warrant against any loss direct or consequential

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