

# E.MIX PG NSG40

Grade 40 non-shrink grout for flowable consistency

E.MIX PG NSG40 is a non-metallic, non-shrink grout formulated for flowable consistency. It contains no chlorides or other substances which could aggravate corrosion of reinforcing steel or prestressing steel cables. E.MIX PG NSG40 is a green-labelled product endorsed by the Singapore Green Building Council. It also meets the HDB Specifications for Grade 40 Pressure Grouting Non Shrink Grout.



## PRODUCT BENEFITS



## USES

E.MIX PG NSG40 is designed for grouting under columns, base plates and sole plates. It is applicable for grouting of prestressed or post-tensioned tendons, anchor bolts, or cables or grouting of post-tensioned structural sections. It is also suitable for grout jacking, pile grouting, and repairing of concrete structures. Other various uses like void backfilling in tunnel work, underpinning of buildings and permanently anchoring posts, signs, parking meters, railings and columns, and other fixtures in concrete, rock or masonry are also applicable.

## TECHNICAL DATA & PHYSICAL PROPERTIES

Water Demand	Approx. 19 - 21% or 4.75 - 5.25 litres/25 kg bag
Wet Density	Approx. 2.20 - 2.26 g/cc
Setting Time (ASTM C953: 2010)	6 hours 45 mins (Initial); 7 hours (Final)
Compressive Strength (ASTM C942: 2015)	≥40 N/mm <sup>2</sup>
Flow Consistency (ASTM C939/C939M: 2016)	10 - 30 sec
Expansion (ASTM C940: 2016)	0.3 % (3 days); +0.3 % (28 days)
Shrinkage @ 28 days (ASTM C940: 2016)	0 %

Specifications are subject to change without notification. Results shown are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance will depend on installation methods and site conditions.

## CONSUMPTION

Approx. 0.0129 - 0.0134 m<sup>3</sup> per 25 kg bag

## PROCEDURE & APPLICATION



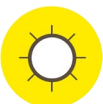
### Substrate Preparation

Base plates or machinery should be firmly bolted down to vertically confine the grout during placement and usage. The grout is for void filling where adequate surface restraint can be provided. It is not for use as a patching material where there is no adequate restraint. Proper formwork should be constructed if containment of the repair grout is needed. Reduce water dosage accordingly if bleeding and segregation do occur at high water dosage. All surfaces must be clean, sound, and free from any laitance, oil, grease, and any contaminants.



### Mixing

Add E.MIX PG NSG40 with the required amount of clean water and mix continuously using a mechanical high-speed drill mixer. Mix continuously for 3 - 7 minutes until the mixture is homogeneous. The use of rotating drum mixers is not recommended. If necessary, reduce or add more water to adjust the mix to the desired consistency. Placing should be completed within 30 minutes after the start of mixing.



### Curing

Exposed grout surfaces should be kept moist for at least 72 hours after grouting. Alternatively, the use of curing compounds meeting the requirements of ASTM C309 is permitted after 24 hours of moist curing.

## STORAGE & PACKING

E.MIX PG NSG40 is available in 25 kg bags.  
Shelf life of 12 months if unopened and kept in sheltered and dry conditions.

## HEALTH & SAFETY

E.MIX PG NSG40 contains cement, which may produce an allergic effect. Material may irritate eyes and skin. In case of contact with eyes, rinse immediately with plenty of water, and seek medical assistance. After contact with the skin, wash immediately with plenty of soap and water. Please keep out of reach of children.

\*Note: Because it is not possible to give specific instructions for the various site conditions or to control the applications, the information on this Technical Data Sheet is for general guidance only. Saint-Gobain (Singapore) Pte Ltd reserves the rights to amend the contents of the data sheet at its sole discretion. (Nov '22)

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