



# PG Non Shrink Grout

*Silica fume enhanced, non-metallic, high strength, ready to use non-shrink grout.*

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## PRODUCT

PG NON SHRINK GROUT consists of accurately weighed portland cement, silica fume, non-metallic aggregates, expanding agents and additives. Silica fume is added to enhance strength, durability, impermeability and abrasion resistance of product. Grout is designed specially for fluid consistency. Product may also be used at plastic, flowable and fluid consistencies. The grout contains no chlorides or other substances which could aggravate corrosion of reinforcing steel or prestressing steel cables.

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## TECHNICAL DATA AND PHYSICAL PROPERTIES

	Plastic	Flowable	Fluid
Water Demand, %	14	16.0	18.0
Litres/25 kg bag	3.5	4.0	4.5
Yield, m <sup>3</sup> /25 kg bag	0.0123	0.0127	0.0134
Wet Density, g/cc	2.31	2.28	2.20
Age	Compressive Strength		
1 day	50	30	28
3 days	65	50	45
7 days	75	65	68*
28 days	88	80	73*
Shrinkage at 28 days, %	0	0	0
Expansion at 28 days, %	< 0.4	< 0.4	0.25*
Bleeding	Nil	Nil	Nil

\* Tested by SETSCO.

- Compressive strength using 50 mm cubes (ASTM C942 : 1999)
- Expansion at 28 days (ASTM C940 : 1998a)
- Conforms to CRD-C621-83

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## USES

PG NON SHRINK GROUT is designed for use in applications where a non-shrink grout is required such as the following:-

- Grouting under columns, base plates, sole plates and machinery not subjected to heavy impact or dynamic loadings or vibrations.
- Grouting of prestressed or post-tensioned tendons, anchor bolts or cables.
- Grouting of post-tensioned structural sections.
- Grout jacking of concrete structures.
- Repairs to concrete structures.
- Void backfilling in tunnel work.
- Underpinning of buildings.
- Permanently anchoring posts, signs, parking meters, railings and columns and other fixtures in concrete, rock or masonry.
- Pile grouting.

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## PROCEDURES

- Add the grout to clean water with continuous mixing to achieve the required consistency.
- For fluid, flowable or plastic consistencies, the grout is best mixed in a high speed shear mixer. Use of rotating drum mixers is not recommended.
- Mix continuously for 3 - 7 minutes depending on type of mixer used prior to placement.
- Placing should be completed within 30 minutes after start of mixing.
- 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.

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## PRECAUTIONS

- This product should not be used for heavy duty precision grouting of machinery base plates, crane rails and situations where it will be subjected to severe dynamic or cyclic loadings or vibrations. The grout can be used under such conditions only if adequate neoprene pads or equivalent vibration and impact absorbing materials are included in the design details.
- Base plates or machinery should be firmly bolted down to vertically confine the grout during placement and usage.
- Pours with least dimensions (thickness) in excess of 150 mm are not recommended.
- The grout is designed for void filling where adequate surface restraint can be provided. It is not intended for use as a patching material where adequate restraint cannot be provided.

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## STORAGE AND PACKING

PG NON SHRINK GROUT is available in 25 kg bags. Storage life is 6 months if product is kept in sheltered and dry place.

\*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. Eastern Pretech Pte Ltd reserves the rights to amend the contents of the data sheet at its sole discretion.

(Jun '10)