

# SyneCrete® EZ-101

## Non-Shrink Grout

### Product Description

**GeneMix™ SyneCrete™ EZ-101 Non-Shrink Grout** is a high quality pre-mixed cement-based non-shrink grout. When water is added, it readily blends to produce a homogeneous grout to be applied for grouting of gaps. **GeneMix™ SyneCrete™ EZ-101** is formulated for multi-purposes use of grouting. The working status of the grout can be adjusted by varying the amount of water added to make it from flowable to trowellable. Shrinkage compensation admixtures are included in the formulation to provide zero shrinkage to a small amount of expansion. This product can be applied by pumping, pouring or by hand trowelling with appropriate machinery and apparatus. The opening time for the grout is approximately 60 minutes, and a longer opening time can be provided on request for long duration continuous grouting.

### Typical Usage

- Grout the voids and gaps in concrete structures
- Grout the voids in steel hollow sections and precast units
- Grout the gaps at vicinity of footings, padding layers, joints and other connections
- Grout the voids and gaps between structures and soils.
- Grout the voids at bearings, dowel bars, anchorages etc.
- Grout the voids in waterproof works

### Features and Advantages

- Non-Shrink
- Non-Bleeding
- Easy to apply and serve for general/various purposes
- High strength and high early strength
- Workability adjustable on site to be from

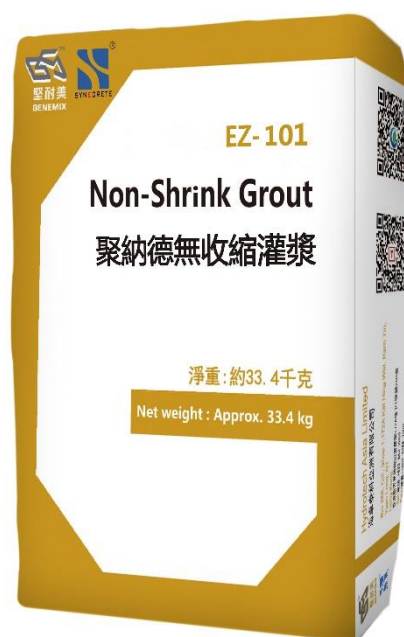


flowable to trowellable

### Technical Data

28-day compressive strength	> 75 MPa (mean) at mean of std. addition of water
28-day flexural strength	> 8.0 MPa (mean) at mean of std. addition of water
Bond to concrete at 28 days	> 0.75 MPa (mean) at mean of std. addition of water
Free expansion 24 hr	~ 1%
Workability (flow – mini slump test)	> 220 mm at mean of std. addition of water
Flow Cone	40s at mean of std. addition of water
Bleeding	None
Usable time (27°C)	About 60 mins
Wet Density	2200 kg per m <sup>3</sup>
Typical Mixing Water	3.0 – 3.5 L per bag
Packing specification	33.4 kg
Best Use	within 6 months

Note: These technical data are based on laboratory test results by testing methods in relevant standards.



## Testing Methods

Compressive and Flexural Strength	BSEN 1015-11
Bond Strength (Pull-Out Test)	HKHA/MTS (2000), Part D 2.1.15
Flow Cone	ASTM C939
Flow Table	EN 12358
Bleeding	ASTM C940 – 98a
Free Expansion (Change in Height at Early Ages)	ASTM C827 – 95a

## Major Components

Portland cement, fine aggregate, graded sand, and other mineral and chemical additives.

## Grouting Preparation

The substrate needs to be cleaned and free from dirt, oil grease, contaminants and loose materials. Prewet the substrate by soaking with potable water and then remove the water before grouting. Possible gaps need to be sealed to prevent grout leakage.

## Mixing and Application

Add to each bag of the prepacked dry grout material with 3.0 – 3.5 litre of potable water. Mechanical mixing using a pan mixer or a suitable paddle is recommended. First mix the water-solid mixture at low speed for about 2 – 3 minutes and then at high speed for at least 2 – 3 minutes until a lump-free homogenous grout is produced. Apply the grout to the voids and gaps by pouring or pumping with necessary pressure to achieve a full grout. Note that one grouting area should be completed in a continuous manner and the whole area should be grouted within the opening time of working of the material to get the best “non-shrink” or expansion performance. The actual opening time of this grout at site condition may vary with temperature and other environmental factors, and if long duration continuous grouting is needed, please contact the supplier to lengthen the opening time for work.

## STORAGE

Store in the unopened bags under dry conditions and keep out of direct sunlight, clear of ground on pallets

protected from rainfall. Avoid excessive stacking of pallets. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

## HEALTH AND SAFETY

The product is alkaline in nature and can cause irritations to persons with sensitive skin. Avoid inhalation of dust and contact in skin and eyes. Wear suitable protective gloves and masks while handling the product. If contact with eyes, rinse immediately with plenty of clean water and seek medical advice. This product is non-volatile, non-toxic and is nonflammable.



## IMPORTANT NOTE

All the information in this leaflet is to the best knowledge of the supplier. It is guaranteed that the information presented herein is true and reliable at the time of presentation. As the construction environment and the personnel involved are beyond the control of the supplier, the supplier does not guarantee performance in case of malpractice and bad workmanship. Material properties may change from the specifications above if materials are not stored or not applied as instructed in this leaflet.