

PRODUCT NAME

# Gem-Grout™ Non-Shrink Silica Fume Enhanced Grout



MANUFACTURER

Gemite® Products Inc.

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FEATURES

- Non-shrink
- Excellent bond strength
- Fast set
- Crack resistant
- Nontoxic
- Nonflammable
- Silica fume enhanced

PRODUCT DESCRIPTION

Basic Use

*Gem-Grout Non-Shrink* is used in grouting applications and in concrete and masonry repair.

Composition and Materials

A cement based, microsilica enhanced composition is pumpable and has an excellent bond to clean, structurally sound concrete. Supplied as a Premix - mixed with water only and poured or pumped into formed cavities. Also available as a Concentrate that is mixed on site with sand, cement & water. *Gem-Grout Non-Shrink Concentrate* is suitable for large volume projects.

Limitations

Do not use *Gem-Grout Non-Shrink* when temperatures may fall below 4°C (40°F) within 48 hours after application. When using *Gem-Grout Non-Shrink* in winter, use electrical heaters to keep the temperature above 4°C (40°F). Follow “hot weather concreting” procedures when applying *Gem-Grout Non-Shrink* at temperatures above 25°C (77°F).

Health and Safety

*Gem-Grout Non-Shrink* is nontoxic. Your skin might be sensitive to hydraulic cement. We recommend use of rubber gloves. Avoid contact with eyes and prolonged contact with skin. If contact occurs, flush immediately with water. Seek medical advice if irritation occurs. Harmful if digested. Keep product out of reach of children. FOR INDUSTRIAL USE ONLY. Consult SDS for additional information.

Color

Cement Gray

Packaging

*Gem-Grout Non-Shrink* is supplied as a concentrate in 17.6 lbs (8 kg) bags. *Gem-Grout Non-Shrink* is also supplied as complete premix containing sand and cement in 50 lbs (22.7 kg) bags.

Yield

*Gem-Grout Non-Shrink Premix*, when mixed with water yields 0.46 ft<sup>3</sup> (13 L).

*Gem-Grout Non-Shrink Concentrate*, mixed with cement and sand yields 2.65 ft<sup>3</sup>(0.075m<sup>3</sup>).

Storage and Transportation

*Gem-Grout Non-Shrink* stored on pallets in a dry, cool area, has a shelf-life of 12 months.

TECHNICAL DATA

Compressive Strength (ASTM C 109 Modified)	5,400 to 6300 psi 37.2 to 43.4 MPa
Modulus of Rupture (Gemite ISO TP -test procedure-006)	670 to 730 psi 4.6 to 5.0 MPa
Plastic Expansion (Volumetric)	3-4%
Flow Test Time	40 to 50 seconds

Note: The above data apply to *Gem-Grout Non-Shrink Premix*. Data for *Gem-Grout Non-Shrink Concentrate* may vary, depending on sand and cement used.

INSTALLATION

Surface Preparation

The proper surface preparation is essential for successful *Gem-Grout Non-Shrink* application. Contact Gemite Technical Service, before starting a project to ensure correct surface preparation & application procedures.

Remove all loose concrete, clean off all grease, laitance, dust, dirt and efflorescence. Saturate the substrate with water, but do not leave any free water in the cavities prior to application of *Gem-Grout Non-Shrink*.

Mixing

Use paddle or helix screw type mortar mixer. Place mixing water in the mixer, slowly add *Gem-Grout Non-Shrink* powder to the water and mix until suitable consistency is obtained.

for one (1) minute. Add sand, cement and mix for one (1) minute. Convey mixed material to point of placement in clean uncontaminated containers or use grouting pump. Portland Cement Type I can be also used; some evaluation of the cement may be required.

Gemite Products Inc.  
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### Mix Design - Premix

*Gem-Grout Non-Shrink Premix*  
Water

50 lbs (22.7 kg)  
0.85 US gal. (3.3 L)

### Mix Design - Concentrate

*Gem-Grout Non-Shrink Conc.*

17.6 lbs (8 kg)

Portland Cement Type I or III

88 lbs (40 kg)

Mortar Sand

220 lbs (100 kg)

Water

5.7 U.S.G. (22L)

### APPLICATION

Apply *Gem-Grout Non-Shrink* by pumping or pouring.

### AVAILABILITY AND COST

*Gem-Grout Non-Shrink* is available worldwide. Contact Gemite for the name of the local Representative/Distributor and prices.

### MAINTENANCE

None required.

### TECHNICAL SERVICE

For technical advice on the suitability of *Gem-Grout Non-Shrink* for a specific application, specification assistance & application advice contact Gemite Technical Service: USA 800-724-5944 or Canada 905-672-2020.

### Short Specification

The grout will be *Gem-Grout Non-Shrink*, silica fume enhanced grout, manufactured by Gemite Products Inc. [USA 800-724-5944], [Canada 905-672-2020]. It will be mixed and applied in accordance with the manufacturer's application instructions. The suitability of the surface preparation method should be consulted with Gemite Technical Service ahead of use.