

PRODUCT DATA SHEET

Jahn M31 & M32 Micro Injection Grout

Jahn M31 and M32 contain no corrosive constituents, and achieve extraordinary flow capacity, penetration and strong adhesion. To enhance penetration and bonding, a small amount of synthetic material is included. M31 and M32 can be applied via gravity feed or pressure injection into hairline cracks up to 3/16" (5.0 mm) in width. This product may be utilized in both non-structural simple void applications and structural load bearing situations, is available in two levels of compressive strength and can be customized through testing.

FEATURES AND BENEFITS

- **Single-Component:** Easy to mix correctly, thereby improving quality control at the point of injection.
- **Tenacious Adhesion:** Strong bonding capabilities.
- **Factory Controlled:** No field chemistry resulting in product variation.
- **Low Viscosity:** Deep, thorough penetration.
- **Simple Application:** Can be applied by pouring or by pumping.
- **Water Based:** Environmentally and user safe. No solvent clean up or disposal problems.

APPLICATION PROCEDURES

Surface Preparation

Wash the surface and interior of the crack using clean water to remove all dust, loose or deleterious material, which could prevent proper flow and/or adhesion.

Mixing

The mixing ratio is approximately 1 part powder to 1 part water by volume. **Mixing must be done with a high speed drill (3,000 RPM or higher) equipped with a Jiffler-type mixing paddle.** After mixing, the grout should be poured into another clean container using a sieve. Additional or repeated agitation is necessary if the grout is allowed to sit prior to use.

Injection Procedures

Immediately before injection, moisten interior of the crack by flushing with water. If the crack is allowed to dry out before the grout is injected, this step must be repeated. This is very important.

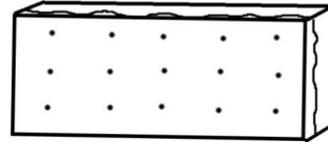
Transverse Cracks



Drill a series of injection ports in the center of the crack. These ports should be drilled in a downward direction. Seal the crack with removable, non-staining clay, sealant, or caulk.

Inject grout into the lowest port and continue until it flows freely from this port and other ports at the same level. Seal ports using non-staining clay, sealant, or caulk and proceed in identical fashion until the crack is filled. **Clean up overflow and runs immediately with clean water.**

Lateral Cracks (Delaminating Layers)



Drill a series of injection ports in a square configuration (90° angles) on the face of the substrate to create a "drill frame". Ports should be drilled in a downward direction. Wash the surface and interior of the crack using clean water to remove dust and loose debris. Any dust or debris remaining between the layers will impede the flow of the grout. If this is the case, more holes will be required to attempt to fill all hollow areas.

Inject grout into lower left port and proceed until it flows freely from this port and other ports at the same level. Seal ports using non-staining clay, sealant, or caulk. Inject grout into lower right port and proceed in identical fashion. The order of injection is lower left, lower right, upper left, and the upper right. **Clean up overflow and runs immediately with clean water.**

Removal of Sealant

Let the grout dry (approximately 24 hours) and remove all sealant, caulk, or clay. After removing the sealant, repair the crack surface and injection holes with Jahn Mortar that matches the color and type of existing masonry.

Clean Up

While injecting, continually check for grout runs and spills on the surface of the masonry, and clean the surface before the grout has time to set. This is normally done with a clean sponge and water, and may have to be repeated several times, rinsing the sponge with clean water.

Remove uncured grout from tools and equipment with water as soon as possible. Cured grout may only be removed chemically or mechanically.

SAFETY REQUIREMENTS

It is recommended that safety goggles, gloves, and a dust mask equipped with P-2 filters (or equivalent) be worn for protection while mixing the grout.

Limitations

- Do not apply Jahn Micro Injection Grout to a frozen or hot substrate. The applied grout must be protected from extreme heat, freezing, excessive wind, direct sunlight, and rain. Ambient temperature range should be 40° F to 90° F with low to average humidity.
- Do not add bonding agents to Jahn Micro Injection Grout or use them as surface preparation material.

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Notice: The information contained herein is based on our own research and the research of others, and it is provided solely as a service to help users. It is believed to be accurate to the best of our knowledge. However, no guarantee of its accuracy can be made, and it is not intended to serve as the basis for determining this product's suitability in any particular situation. For this reason, purchasers are responsible to make their own tests and assume all risks associated with using this product.

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WARNING

Not for internal consumption. Keep out of reach of children and animals. Consult Material Safety Data Sheet (MSDS) for specific information.

PACKAGING

A two-gallon plastic pail contains approximately 15 lb. of material. Coverage will vary depending on the type of substrate and the size of the crack.

STORAGE AND SHELF LIFE

Store material in a dry area away from direct sunlight. Ambient storage conditions should be in the range of 40°F to 90°F with low to average humidity. Average shelf life is 2 years in original, unopened packaging.

TECHNICAL DATA

Jahn M31 - Micro Injection Grout

Compressive strength	2 days approx. 3 days approx. 7 days approx. 28 days approx.	3600 psi 6400 psi 7400 psi 9000 psi
Tensile strength	28 days approx.	360 psi
Concrete granular size		Smaller than 6.3E-04 inches
Viscosity direct		80 cps
Specific gravity		1.77
Consumption		Ratio water/dry material: 45% of total weight
Application mixed product		Approx. 30 minutes (68° F)

TECHNICAL DATA

Jahn M32 - Micro Injection Grout

Compressive strength	2 days approx. 3 days approx. 7 days approx. 28 days approx.	1264 psi 2243 psi 2591 psi 3160 psi
Tensile strength	28 days approx.	195 ps
Concrete granular size		Smaller than 6.3E-04 inches
Viscosity direct		80 cps
Specific gravity		1.77
Consumption		Ratio water/dry material: 45% of total weight
Application mixed product		Approx. 30 minutes (68° F)

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