



Concrete Admixtures and Fiber

IMIPOXY GEL-201

High Modulus, Epoxy Gel Adhesive

DESCRIPTION

IMIPOXY GEL-201 is a very fast set, two component, 100% solids, high modulus, epoxy gel adhesive that is moisture tolerant and meets the requirements of ASTM C-881. IMIPOXY GEL-201 is available in dispensing cartridges or larger gallon units.

USE

IMIPOXY GEL-201 primary use is for anchoring bolts, dowels and reinforcing steel in concrete. IMIPOXY GEL-201 may also be used for vertical and overhead structural bonding, patching and sealing of cracks and the setting of injection ports.

ADVANTAGES

- High-strength structural adhesion
- Ideal for anchoring of dowels, bolts and reinforcing steel
- Easy dispensing, no mixing with prefilled cartridges
- Very Fast setting
- Moisture tolerant
- Gel consistency
- Excellent adhesion

TECHNICAL INFORMATION

Applicable Standards: ASTM C-881, Type I, II, IV and V, Grade 3, Classes B & C

Application: Surface Preparation: Before the application of IMIPOXY GEL-201 the surface to be bonded must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other foreign matter by sandblasting, mechanical abrasion or hydro blasting. For drilled holes, clean with a bristle brush. Remove all water and dust with clean, compressed air prior to application.

Mixing Instructions: Air and surface temperatures must be 40°F(4°C) or above. Mix equal volumes of Part A and Part B for three minutes with a low speed drill equipped with a Jiffy mixer or paddle. Mix only what can be used during the pot life. For easy dispensing and no mixing, use IMIPOXY GEL-201 prefilled cartridges and dispensing guns. Contact IMI for details. For use as an adhesive, apply the IMIPOXY GEL-201 material neat and work into substrate. The glue line should not exceed 1/8"(3.0mm). For the anchoring of bolts, dowels, reinforcing steel, etc., the depth of the hole should be approximately 9-15 times the bolt diameter. For optimum pull-out, the hole space (annulus) around the bolt in the hole should not exceed 1/8"(0.3cm). The annulus should not exceed 1/4" without aggregate extension. For dispensing epoxy with the cartridges, first cut the static nozzle mixer tip to the preferred opening for the job. Next, remove plugs from cartridge, attach the static mixer with the nut and then finger tighten. Load a cartridge into the dispensing gun and dispense a bead of epoxy until the color is uniformly gray with no streaks. Now the cartridge is ready to use. Dispense the epoxy into the anchoring hole filling from the bottom up. Insert the bolt, dowel or anchor turning it slowly during insertion. After insertion, the hole should be completely full of epoxy. To produce a mortar for interior patching repairs, mix 1 to 1 1/2 parts by volume of clean, dry, well-graded silica sand to one part by volume of mixed epoxy. Place the mortar, working it into the concrete substrate. Each mortar lift should not exceed 1"(2.5cm).

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APPLICATION PROPERTIES

Mix Ratio	1:1 by volume
Gel Time (ASTM C-881)	10 minutes
Color	Gray
Consistency	Gel

CURED PROPERTIES:

Compressive Yield Strength (ASTM D-695)	14,770 psi min.(101.82 MPa)
Bond Strength (ASTM C-882)	
2 days	1,930 psi (13.30 MPa)
14 days	2,735 psi (18.85 MPa)
Compressive Modulus (ASTM D-695)	991,627 psi (6,837.26 MPa)
Tensile Strength (ASTM D-638)	8,272 psi (57.03 MPa)
Elongation at Break (ASTM D-638)	1.07%
Water Absorption (ASTM D-570)	0.16%
Heat Deflection Temp (ASTM D-648)	154.2°F (67.88°C)

PACKAGING

Unit Sizes:

- 1 Quart (.95 L) units
- 1 Gallon (3.8 L) units
- 2 Gallon (7.6 L) units
- 10 Gallon (37.8 L) units
- 22 Oz. Dual Cartridge (.65 L)

LIMITATIONS

Always test a small amount of **IMIPOXY GEL-201** to verify that the product has been thoroughly mixed and will harden properly before proceeding. Do not thin with any solvent. Surface and air temperatures must be a minimum of 40°F (4°C) for mixing and application. For applications greater than 150°F(66°C).

STORAGE

IMIPOXY GEL-201 should be stored in a dry environment between 40-90°F(5-32°C). Under these conditions, the shelf life is twelve (12) months in unopened, damage-free containers.

ESTIMATING GUIDE

Bolt Diameter Rebar Size	Hole Diameter	Hole Depth	Anchors per 22 fl.oz. Cartridge (.65 liter)	
			Threaded Rod	Rebar/Dowel:
3/8"-#3(1 cm)	1/2"(1.3cm)	4"(10.2cm)	101	115
1/2"-#4(1.3cm)	5/8" (1.6cm)	5"(12.7cm)	51	70
5/8"-#5(1.6cm)	3/4"(1.9cm)	6" (15.2cm)	26	33
3/4"-#6(1.9cm)	7/8"(2.2cm)	7" (17.8cm)	17	23
7/8"-#7(2.2cm)	1" (2.5cm)	8" (20.3cm)	12	17
1"-#8(2.5cm)	1-1/8" (2.8cm)	9" (22.9cm)	9.3	13
1-1/4"-#10 (3.2cm)	1-1/4" (3.8cm)	9" (22.9cm)	5.9	5.9

