

DOWEL BAR ADHESIVE - 5 - NON-SAG, HIGH MODULUS, RAPID SET, EPOXY GEL

DESCRIPTION: DBA-5 is a two component, 100% solids, rapid setting, non-abrasive, high modulus epoxy gel. DBA-5 is designed for use with meter mix pumping equipment or is packaged in easy-to-use two component cartridges. DBA-5 is color-coded to assure that mixing is complete.

USES: Grout for dowl bars, rebars and anchor bofts in concrete for load bearing applications. Bonding hardened concrete and other materials to harden concrete. Binder for epoxy mortars. Sealing cracks and adhering ports for crack injection.

ADVANTAGES: Rapid set for early strength. Moisture insensitive – may be applied to dry or damp concrete or in humid conditions. Color-coded for error free mixing. 100% solids, conforms to VOC regulations. Conforms to Grade 3, Class A, Type I, IV, & V of ASTM C-881. Non-abrasive.

SURFACE PREPARATION: All concrete surfaces to be bonded should be dry for best results. However, a damp surface dry condition is acceptable. Surfaces must be free of standing water. Mechanical scarifying to remove laitance or other foreign materials will result in optimum bond. Drill holes must be air blasted to remove residual dust. Steel dowel bars must be free of rust and oily substances. Sand blast or wire brush to white metal.

MIXING AND APPLICATION: DBA-5 supplied in containers should be inspected for settling. The individual components should be mixed prior to combining them or charging them into the compartments of dispensing equipment. Check dispensing equipment to be sure of correct 1:1 by volume mix ratio. Mixed products should be a homogeneous gray color with no black or white streaks. If mixing DBA-5 by hand, combine part A and part B in equal volumes. Do not mix more than can applied in five (5) minutes. Inject dowel hole to half its depth with mixed epoxy. Insert the dowel bar with a twisting motion to coat the bar and then push it to the bottom of the hole. Use only enough material to cause a slight run off to the face of the hole when the dowel or anchor has been placed. When used as a surface sealer or adhering injection ports, apply with trowel or spatula. Injection can commence once DBA-5 is sufficiently cured. For epoxy mortar, mix 1 volume of clean, dry sand to 1 volume of mixed DBA-5. Apply by trowel to prepared substrate.

LIMITATIONS: Do NOT apply when temperature is below 33°F. Do NOT apply to latex modified mortar or concrete.

CLEAN UP: Clean tools and equipment immediately with a suitable solvent such as xylene or lacquer thinner.

PACKAGING: 2 component cartridges, 2 gallon units, 10 gallon units, 100 gallon units

CAUTION: For professional use only. Epoxy systems can cause delayed dermatitis. Avoid prolonged contact with skin. See Material Safety Data Sheet for proper handling and required safety equipment.

Properties at 77° F	
Mix ratio by volume	1:1
Color	Part A – White, Part B – Black. Mixed - Gray
Pot Life (100 Grams)	5-10 Minutes
Pull Out Strength	Exceeds 12,000 psi
Bond Strength	2 Day- 2,400 PSI / 14 Day – 2,800 PSI
Heat Deflection Temp. (ASTM D-648)	130° F
Compressive Strength (ASTM D-695)	>10,000 psi
Compressive Modulus (ASTM D-695)	>225,000 psi
Tensile Strength (ASTM D-638)	>8,000 psi
Water Absorption	.13%
Georgia D.O.T. Section 886	Type VIII
Shelf Life	1 Year