

Durajoint® Anchor-Bond Gel Epoxy Technical Data

Product Description

DURAJOINT® ANCHOR-BOND GEL EPOXY is a high viscosity, hi-mod, high strength bonding and anchoring epoxy.

DURAJOINT® ANCHOR-BOND GEL EPOXY is a two-component, moisture insensitive construction epoxy, which can be troweled, brushed, injected or pumped. It is solvent-free, low odor, high strength, and non-sag.

Typical Uses

DURAJOINT® ANCHOR-BOND GEL EPOXY is an easy-to-mix and easy-to-apply gel epoxy, ideal for anchoring, doweling, and general repairs. Used to anchor bolts, dowels, reinforcing steel, and Durajoint® retrofit waterstop kits. It is suitable for the sealing of cracks, structural bonding and patching, and the setting of injection ports. Use with concrete, block, brick, or stone.

Packaging

- 22 oz. dual cartridge
- 12 cartridges / carton

Color

Part A: White
Part B: Black
Mixed: Gray

Storage & Shelf Life

Store in its original container and keep tightly closed. Do not allow accumulation of water, dirt or other contaminants. The shelf life if properly stored is **two years** from the manufacture date.

Health & Safety

Prolonged or repeated skin or eye contact may cause irritation. If contact occurs, wash immediately and seek medical help. Use safety glasses and wear protective rubber gloves. In case of ingestion, call a physician. Contact with skin may cause chemical burns. Wash immediately with soap and water. Avoid eye contact. If eye contact occurs, flush immediately with water. Product is a strong sensitizer. Avoid breathing vapors. Use safety glasses and wear protective rubber gloves.

INDUSTRIAL USE ONLY

Typical Properties

Mix Ratio:	1:1
Mixed Color	Gray
Gel Time (ASTM 881):	45 minutes

Typical Cured Properties

Cure Time:	24 hours
Compressive Strength (ASTM D695):	11,230 psi
Compressive Modulus (ASTM D695):	326,500 psi
Bond Strength at 2 days:	2,460 psi
Bond Strength at 14 days:	3,280 psi
Elongation (ASTM D638):	1.3%
Tensile Strength (ASTM D638):	7,210
Water Absorption (ASTM D570):	<0.5%
Heat Deflection (ASTM D648):	133°F

Specifications

DURAJOINT® ANCHOR-BOND GEL EPOXY meets ASTM C881 and AASHTO M 235, Type I, II, IV, and V; Grade 3; Class B & C.

Application

Mixing Instructions: Air, material and surface temperatures must be a minimum of 40°F prior to mixing or installation. To assist with mixing and dispensing, precondition material to 75°F. For cartridges, the resin and hardener are uniformly dispensed and mixed simultaneously through a mixing nozzle. For bulk applications, mix equal volumes of Part A and Part B for three minutes with a low speed drill motor using a Jiffy mixer or paddle. Mix only as much material as can be used within the pot life.

Surface Preparation: Surfaces to be bonded must be clean and structurally sound. Remove all oil, grease, dirt, laitance, curing compounds, and any other foreign matter by sandblasting, mechanical abrasion or hydro blasting. All drilled holes must be cleaned out with a nylon brush removing all dust and loose material. Use clean, oil free compressed air to blow out any remaining water, dust, or debris prior to application. Bolts, rebar or threaded rod should be free of dirt, grease, oil of other foreign material.

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Waterstop • Forming Accessories • Tilt-Up Accessories • Prestressed Accessories • Rebar/Mesh Supports

DCA CONSTRUCTION PRODUCTS, LLC

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durajoint.com

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Application Cont'd.

Bonding: As a structural adhesive, apply the **DURAJOINT® ANCHOR-BOND GEL EPOXY** neat and work into the substrate. The glue line should not exceed 1/8".

Anchoring: For use in anchoring dowels, bolts, reinforcing steel, etc. the depth of the hole should be approximately 10-15 times the bolt diameter. The hole diameter should be approximately 1/8" larger than the threaded rod diameter. Ensure the holes are properly prepared, (drilled, brushed and blown out) prior to preparing the epoxy cartridge. Insert the cartridge into the dispensing gun. Remove the plastic caps and dispense a small amount of material until an even flow of black and white material is achieved. Place the mixing nozzle onto the cartridge then slide the nut over the nozzle and thread the nut onto the cartridge. To achieve maximum flow, break off the tip of the mixing nozzle to the largest diameter that will fit into the hole or screen. No nut is necessary on mixers with built-in nuts. Dispense into a disposable container until a uniform gray is achieved with no streaks.

Into Concrete: Dispense the material from the bottom of the hole. Fill approx. 5/8 of the hole depth while slowly removing the nozzle. Insert the bolt, or dowel by turning it slowly during insertion. After insertion, the hole should be completely filled with **DURAJOINT® ANCHOR-BOND GEL EPOXY** and devoid of all air pockets or voids. Do not disturb or bolt up until cured.

Into Hollow Block: The cartridge is prepared as for concrete. The mixing nozzle is inserted into the bottom of the screen. Completely fill the screen while withdrawing the nozzle. Insert the epoxy filled screen into the hole. Insert the threaded rod to the bottom of the screen while turning slightly clockwise. Do not disturb or bolt up until cured.

Cleaning

Clean tools and equipment immediately with toluene or xylene. Clean equipment away from all ignition sources. Dispose of in accordance with local, state, and federal disposal regulations. Mechanical removal is necessary for cured material.

Limitations

DO NOT USE FOR OVERHEAD ANCHORING.

Always test a small amount of **DURAJOINT® ANCHOR-BOND GEL EPOXY** 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 for application.

Warranty

CONDITIONS OF SALE

DCA Construction Products offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of DCA Construction Products. No other representative of or for DCA Construction Products is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

DCA Construction Products warrants this product to be free of manufacturing defects. If the product when purchased was defective and was used within shelf life indicated on Technical Data Sheet, DCA Construction Products will replace the defective product with new product. DCA Construction Products makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.

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