

830 Bond♦Seal

Description

830 is a thixotropic, fuel resistant, quick set reactive gel polymer compound used as an adhesive material for various substrates, metals, plastics and concrete. 830 holds a vertical bead when applied from a duplex cartridge. The product bonds to fiberglass and may be used for sealing fittings on fuel sumps, repair of fiberglass tanks and to quickly fill cracks in containment tanks that will be surface coated. It also is used as a seam sealer for steel tank sections prior to coating and a filler for surface imperfections in concrete and other materials. With quick set-up time, 830 provides for rapid applications where vertical bonding is required. The product is also excellent for the sealing of cracks in concrete for structural injection and sealing around injection ports. 830 may be dispensed from manual duplex cartridges & guns or via plural component pump machines. The product may be troweled and moved as needed for bonding and filling of various substrates.

Various Set Times:

830 is designed to set with several gel/set time speeds, depending on individual customer specifications. The set time is denoted after the product name. For example 830-45/60 is 45 to 60 seconds gel time, 830-60/120 sets in 1 to 2 minutes, 830-240/360 sets in 4 to 6 minutes, etc. The product set time is temperature dependent, i.e., warm or hot conditions will speed the set time and cool conditions will slow the set time. The very fast set 45/60 seconds is best for cool or cold conditions.

VOC Content: 0gms/1 or 0.0 lbs/gal

Potlife: No potlife; dispensed from pumps or cartridges.

Curing Time: Usually minutes depending on the specific gel time of the 830.

45/60 second gel – hard within 10 minutes

60/120 second gel – hard within 15 to 20 minutes

240/360 second gel – hard within 30 to 40 minutes

Above tested @ 70°F.

Full hardness with flexibility in 6 to 12 hours @ 70°F.

Color:

The product is black or non-pigmented having a whitish color when mixed properly and after it has set. Bond Seal 830 has no odor and is 100% solids and no VOC's.

Advantages

- ✦ VERTICAL HOLD DIRECTLY FROM THE CARTRIDGE OR STATIC MIXER
- ✦ USED IN COLD CONDITIONS
- ✦ SANDED AND COATED QUICKLY
- ✦ CAN BE SPRAYED OVER WITH POLYUREA
- ✦ HIGH CHEMICAL RESISTANCE, FUEL RESISTANT
- ✦ HIGHLY ADHESIVE TO MANY SUBSTRATES
- ✦ FAST SET, TROWEL-ABLE
- ✦ BONDS TO PLASTIC, URETHANE, POLYUREA, FIBERGLASS, STEEL, WOOD AND CONCRETE CARTRIDGE DISPENSED

USES AND AREAS

SEAM BONDING FILLING FOR TANKS, DUCTS AND WALL PANELS
 PERIMETER CONTAINMENT SEALING FOR CHEMICALS
 RAPID "BUG-HOLE" FILLER FOR POLYUREA SPRAY APPLICATIONS OR FLOOR APPLICATIONS
 PLASTIC, METAL BONDING & REPAIRS
 FOOD PROCESSING AREAS – SEALING & FLOOR REPAIR MEETS USDA REQUIREMENTS
 SEALING, BONDING INDUCTIVE LOOPS, ELECTRONICS
 VERTICAL SURFACES SEALING AND REPAIR
 WASTE HOLDING & TREATMENT AREAS – SEALING AND REPAIR
 PETROCHEMICAL PRODUCTION FLOORS
 PULP AND PAPER
 WASTE TREATMENT FACILITIES
 HIGH TRAFFIC INDUSTRIAL FLOORS
 USED FOR IMMEDIATE CRACK AND DAMAGE REPAIR FOR DECORATIVE FLOORS

General Physical Characteristics

Hardness	Shore D 60 to 63
Solids 100% Mix Ratio	1:1
Tensile (lb/mil)	up to 2300
Color	Natural or Black
Viscosity @ 72°F	Part A: 1000+/-300
CPS	Part B: 1700+/-500
Weight/gal	Part A: 10 lbs Part B: 8.8 lbs
Specific Gravity	1.08
Gel Times	Speed Varies**

**Speed is temperature dependent. Hot conditions speed the set time, cool conditions slow the set time. Sanding time depends on set time of product; faster set provides faster sand time due to faster cross-linking.

Application:

The product is mixed and applied via a 1:1 duplex cartridge or a plural component 1:1 ratio pump fitted with the proper static mixer.

Surface Preparation:

Surface is to be free of all contaminants that would act as a bond breaker. The area to be sealed should be sound to the degree that good bonding of the sealer will result when properly applied. The area should be dry.

Plastics & Metals:

Abrade as needed, wipe with solvent and prime. Consult ASTC for various substrate primers.

Concrete:

Must be cured at least 28 days or be dry enough for the application.

All surfaces must be dust free.

Limitations:

Do not use on wet surfaces or expose part A to moisture. Keep out of direct sunlight, store at room temperature.

Do not allow the product to stand/dwell in the static mixer. Use at 5 degrees F above dew point.

Keep cartridges warm when using product in cool conditions.

Shelf Life:

Six months; store between 40°F and 100°F. Finish: This product has a High Gloss finish and can be sanded and painted as needed.

Packaging:

Duplex cartridge kits , 10 gallon kits, 100 gallon kits.

This product is for use by professional applicators only. Wear Protective Clothing and gloves as the product bonds very well to fabrics. Read MSDS before using this product. DOT/Flash Point – Non-flammable Liquid Classification, not regulated. Warranty: See ASTC Polymers, Inc. Warranty data sheet. (2-13) Product data sheets subject to change without notice. © 2010 ASTC Polymers, Inc .



See Video using the electric duplex applicator gun. Get the link from ASTC.

