

BOLTHOLD™ EPX3 Resin Anchoring Grout

Datasheet V1.0

Overview

BoltHold is a family of anchors specifically designed for anchoring to asphalt surfaces. The anchors require the use of grout to bind the anchors to the asphalt without stress. An oversized hole is drilled in the asphalt, filled with the grout and the anchor is pushed in until flush with the surface.

Description

The EPX3 is a two-component resin grout particularly suitable for anchoring into asphalt. The grout can be applied at temperatures as **low as 14°F**. The grout fills the crevices in the asphalt as it cures, forming a strong mechanical bond with the asphalt on the one hand, and with the anchor on the other. This is a stress-free bond that does not weaken with time.

The EPX3 is supplied as a single 10 oz. cartridge that fits a standard caulking gun. The cartridge contains both parts of the resin. A static mixing nozzle (shown next to the cartridge in the picture above) fits on the thread at the top of the cartridge and will discharge a proper mix of the two resin components.



The EPX3 is made in Germany.

Equipment Required

The mixing of the two parts of the resin through the nozzle requires a fair amount of force to be applied to the cartridge. We strongly recommend the use of high-thrust (26:1) caulking guns. We have tested JES M26S with favorable results, but there are other products on the market such as Dripless HR300 and Albion B26 which will work just as well.



Installation Manual

Always consult the online installation instructions first. The comprehensive manual is available on our web site under "[Library](#)". The online manual is updated regularly to reflect the availability of grouts, new installation techniques and user feedback. In case of conflict between this document and the instructions online, the manual online takes precedence.

Installation Using the EPX3

- Condition the grout to room temperature for best results
- Drill hole in asphalt according to anchor model
- Clean dust from the hole and around the hole
- Remove cap from cartridge and thread the mixing nozzle that is supplied with the cartridge. *Extra* nozzles can be ordered P/N 83-6002.N
- Dispense and discard a 2" bead to achieve proper mix as indicated by its uniform color
- Place the tip of the nozzle at the bottom of the hole and dispense, pulling the nozzle up slowly, until the grout reaches and slightly tops the hole
- Push the anchor slowly into the hole. To make sure that the grout wets the surface of the anchor, gently pull the anchor back a little and push it back in.
- Observe for air pockets. If any, push anchors in and pull it out 1' at a time.
- When anchor is about 1" above the surface, verify that the grout reaches the top of the hole. Top off with more grout if necessary
- Gently hammer the anchor until its head is flush with the asphalt
- Do not remove the bolt on the anchor until you allowed ample time for the grout to cure. See curing timetable below
- If there is material left in the cartridge it can be used within the shelf life of the material. If more than a few minutes have passed since the cartridge was last used, the nozzle needs to be discarded and a new one needs to be used. Use the cap to close the opening in the cartridge.

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Cure time

The grout can be applied at asphalt temperatures from 14°F to 104°F. However, below 23°F the grout itself needs to be preconditioned to 68°F. The table on the next page shows working time and cure time as a function of ambient and asphalt temperature

Temp	Work Time	Cure Time
14°F	90	24 hours
41°F	25	2 hours
68°F	6	45 min
86°F	4	25 min

Shelf Life

When kept at temperatures between 41°F and 77°F, shelf life is 18 months.

Other Features

- Fire resistance test report 3290/0966
- Certified for drinking water applications acc. to NSF Standard 61
- High chemical resistance
- Low odor
- Cured grout is stable -40°F to 248°F
- Meets industry UV resistance requirements
- Hardness Shore 90

Yields

Use the table below to estimate how much grout is needed to each of the 4 models of the BoltHold anchors:

Model	SP10	SP12	SP18	SP58
Anchors	4	2	2	1
6-pack	0.75	0.33	0.33	0.16

As an example, 1 EPX3 cartridge supplies 4 SP10 individual anchors' installation. Or, for a six-pack of SP10, 1 cartridge is good for 0.75 of a six-pack of SP10 (4 out of 6).

Metrics

Cartridge Length	10"
Cartridge diameter	2"
Cartridge weight	2 lb.
Cartridge volume	10 FL oz
Active ingredients	Vinyl ester
Nozzle Mix ratio	10:1
Shrinkage	<0.2%
Dispensing Temperature Range	14°F- 104°F
Usability temperature Limit	240°F
Drinking water compatibility	100%
Zinc, Stainless steel compatibility	100%
Storage	18 months
SKU cartridge and (1) nozzle	82-6002
SKU extra nozzle	82-6002.N

Safety:

Uncured, may cause an allergic skin reaction and respiratory irritation. The product is safe to transport by truck, marine and airplanes as "not hazardous".

[SDS Statement](#)

Links

[Installation Manual](#)

[Prices](#)

