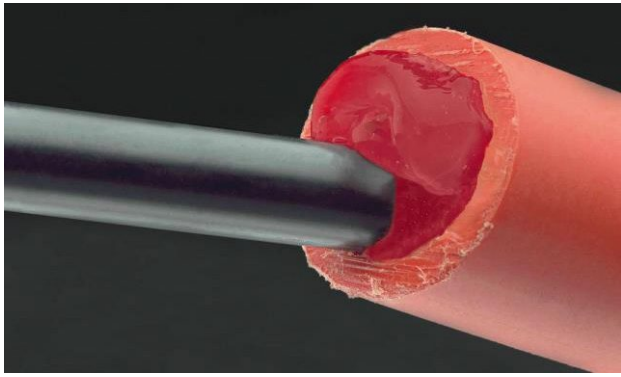




INSTRUCTIONS FOR USE

POLYWATER® ICEFREE CHEMICAL DUCT BLOCK (ICEFREE)



POLYWATER CHEMICAL DUCT BLOCK

IceFree is a specialty, non-freezing gel that is pumped into conduits around fiber cable to prevent water ingress and subsequent ice formation. IceFree is recommended for sections of ducts that are susceptible to freezing, such as bridge crossings or areas where duct is placed above the frost line.

INSTALLATION

Installation temperature:

-40°F to 120°F (-40°C to 60°C)

In-service temperature:

-50°F to 200°F (-45°C to 93°C)

- Prevents microfractures in fibers.
- Stops fiber failures.

SAFETY

- Wear eye protection.
- Use protective gloves and protect bare skin.



IceFree Pump in drum

1. Use these components to make an easily accessible quick-connect hose between the pump and the gel delivery hose, which may be replaced after loading with IceFree Chemical Duct Block. Use a male nipple on each end of the insertion hose to avoid losing the O-ring gasket on the female coupler when cleaning the hose.



IceFree Chemical Duct Block

2. After inserting gel delivery hose to proper location, mix one bottle of IceFree Chemical Duct Block. Add Part B-liquid to Part A-powder. Put cap on and shake for 15 seconds, until well mixed. The mixture will become very liquid.

3. Take spare insertion hose with quick-connects attached and slide neck of bottle over male quick-connect nipple.

4. Squeeze bottle while holding slightly elevated; keep close eye on to other end of hose to see when IceFree Chemical Duct Block reaches other end.

5. When IceFree Chemical Duct Block reaches other end, put thumb over to prevent escape, but allow air to escape as needed. Squeeze entire bottle into hose until hose is full or bottle is empty.
6. Taking care not to spill any IceFree Chemical Duct Block from hose, quick connect into delivery system between pump and gel delivery hose. Also, connect pressure relief valve assembly between pump and insertion hose.
7. Begin pumping as usual.
8. When done pumping, open pressure relief valve so it is easy to disconnect Duct Block Hose.
9. Clean spare hose to be ready for next use. Keep free of dirt and contaminants.

Conduit Size	Number IceFree Block
<2 inches / 50 mm	1 WB-8
3 inches / 38 mm	2 WB-8
4 inches / 100 mm	4 WB-8

Duct Block Mixing at High Temperatures

Field reports have indicated accelerated setup of IceFree Chemical Duct Block during warm weather. Laboratory tests as 120°F have confirmed this problem.

At 120°F the duct block sets up in less than 30 seconds. This rapid setup is causing problems for field personnel because they do not have sufficient time to transfer the duct block to the insertion hose.

The following is recommended:

- (1) In warm weather, store the duct block in an ice cooler during the day.
- (2) Don't mix the duct block until insertion hose is ready to be filled. Be quick when transferring.

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IMPORTANT NOTICE: The statements here are made in good faith based on tests and observations we believe to be reliable. However, the completeness and accuracy of the information is not guaranteed. Before using, the end- user should conduct whatever evaluations are necessary to determine that the product is suitable for the intended use.

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