



GREENSTREAK GROUP, INC.

# X-Plug®

## The Only Mechanical Plug for Taper Tie Voids

**THE INDUSTRY'S WATERSTOP EXPERTS,  
NOW OFFERS THE X-PLUG®**

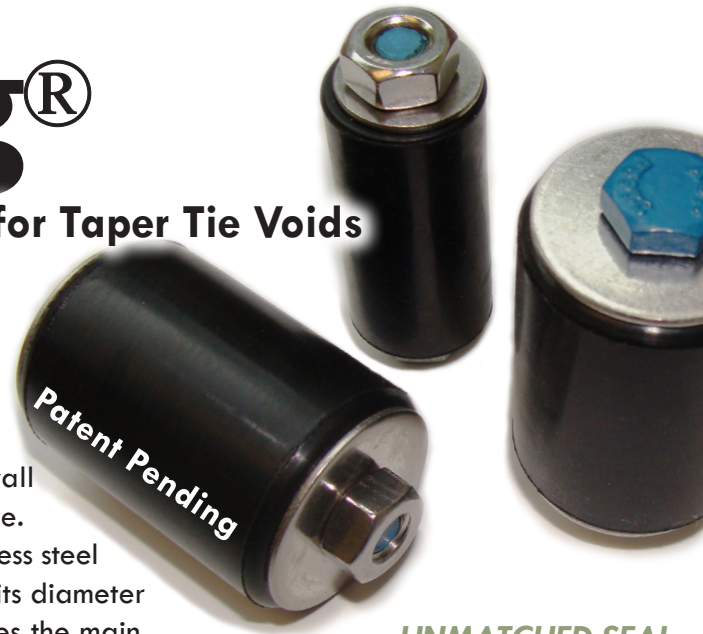
The X-Plug® is a "patent pending" mechanical plug specifically designed to SEAL the void formed in a concrete wall by the removal of a taper tie rod or pass through tie sleeve. With the X-Plug's® mechanical design, tightening of the stainless steel nut causes an expansion of the EPDM rubber plug, increasing its diameter inside the taper tie void. This action simultaneously compresses the main body plug onto the bolt to create a liquid-tight seal between the plug and the wall of the taper tie void.

The X-Plug® used with a taper tie system has proven to save contractors 50% in labor and materials costs when compared to alternative forming/sealing methods (i.e. She Bolts, non-mechanical plugs). The X-Plug® can be installed 6 times faster than non-mechanical plugs and ensures a positive seal unlike the competition. With the taper tie system, contractors are able to erect wall forms in a fraction of the time compared to a she bolt system that can lead to time consuming, costly leak repairs and corrosion of the inner coil rod.

The X-Plug® has the capability and reliability to seal taper tie voids without grout on either side of the plug to a head pressure rating of nearly 300 ft. There is no longer a need to use a non-shrink grout, water plug, epoxy, or bentonite rope in the taper tie voids as an added precaution.

The 304 stainless steel bolt is compression set at 50 lbs. into the rubber grommet, to prevent spinning during installation.

A Xylan coating is applied to the stainless steel bolt to boost the corrosive resistance an extra 500-1000 hours in the ASTM B1117 Salt Spray Test. The Xylan coating also serves as an anti-galling/anti-seizing agent.




**UNMATCHED SEAL  
UNBELIEVABLE SAVINGS**



### Structures Requiring X-Plug®

- Water/Waste Water Treatment Facilities
- Pump Stations
- Sewage Screening Facilities
- Chemical Treatment Facilities\*
- Liquid Chlorination Facilities
- Ground Storage Facilities
- Flood Control and Levee Structures
- Foundations
- Dam/Levee Restorations
- Any structure designed to be liquid-tight

\*Consult a Greenstreak engineer for compatibility of the X-Plug® in your specific chemical environment.

Greenstreak Group, Inc.   
is a subsidiary of Sika Corporation

## Installation

- Clear tie void of all loose debris. A taper tie void brush is recommended and available from Greenstreak (see Accessories).
- X-Plug® will seat at 50-60% of wall thickness when properly selected.
- Attach the 7/16" installation extension to handheld drill. Place nut side of plug into socket and slide into void. Plug will stop when seated in tapered void, FULLY TIGHTEN NUT.
- Once the nut has been fully tightened, the taper tie void can then be packed with grout if desired for aesthetics.

# X-Plug®



## Important Considerations

**Extreme Cold** – At below freezing temperatures, Greenstreak recommends storing the product in a warm climate prior to installation to ensure maximum performance during installation.

**Setting/Adjusting taper ties** - For maximum performance and to ensure the proper size X-Plug® is ordered, the contractor should pay close attention to tie placement/shifting. Greenstreak recommends that before taper ties are placed into the form work, all ties are pre set with the large wing nuts and plates set to a predetermined distance on the threads to allow the “large diameter” of the taper to land as close to the concrete wall as possible. This will ensure proper depth and plug placement for increased efficiency.

**Chemical Resistance** - The X-Plug® is suitable for use in many, but not all chemical containment applications. Consult a Greenstreak engineer for details concerning specific environments and applications.

## Product Sizes, Packaging and Accessories



Pail Color	Code	Taper Tie Size	Pail Quantity
Black	XP001	1-1/4" to 1-1/2"	300
Red	XP002	1" to 1-1/4"	400
White	XP003	3/4" to 1-1/4"	500
Blue	XP004	3/4" to 1"	350
Green	XP005	5/8" to 7/8"	350
Yellow	XP006	5/8" to 3/4"	350



36" brushes are available for cleaning taper tie voids:

XPBR01 (1-1/2" Diameter)  
XPBR02 (1-1/4" Diameter)  
XPBR03 (1" Diameter)

Deep Extension Sockets are available for wall thicknesses up to 26" No. XPST01

The X-Plug® is provided in color coded, sealed pails to easily identify sizes. Emptied pails are useful for mixing grout after sealing taper tie voids.

LIMITED WARRANTY: GREENSTREAK warrants to the Buyer that this product will be free of defects and will perform as represented in writing subject to the (2) following conditions:

First, the application of the product and the concrete construction practices used in the application are in accordance with GREENSTREAK'S Recommendations.

Second, the Buyer has selected the proper product for the specific application required. GREENSTREAK disclaims any responsibility for the selection of a particular X-Plug product. Product selection is the sole responsibility and decision of the buyer. The suitability of any material for a specific application requiring fluid resistance is best determined by specific testing for the application. GREENSTREAK urges the Buyer to conduct its own testing.

Any information supplied by GREENSTREAK with respect to its products is believed to be correct. GREENSTREAK makes no representations or warranties, express or implied, as to the accuracy or completeness of such information or the use of such information for a particular purpose.

Because GREENSTREAK has no control over either the application or the selection of its products, GREENSTREAK's Limited Warranty is as follows: The exclusive remedies of the Buyer and the limit of the liability of GREENSTREAK from any and all losses or damages resulting from the use of this product (including claims based on contract, negligence, strict liability, or otherwise) shall be either the full refund of the purchase price to Buyer of this product or the replacement of the quantity of product purchased by the Buyer - at the election of GREENSTREAK. In no event shall GREENSTREAK be liable for any incidental or consequential damages. The Buyer and all users of this product are deemed to have accepted the terms of this Limited Warranty which may not be varied in any way by any verbal or written agreement.



GREENSTREAK GROUP, INC.

800-325-9504

www.Greenstreak.com

St. Louis MO   Ontario CA   Franklin MA   Greenville SC

Greenstreak Group, Inc.   
is a subsidiary of Sika Corporation  
07/10