

X-Plug®

The Only Mechanical Plug for Taper Tie Voids

UNMATCHED SEAL - UNBELIEVABLE SAVINGS

PATENTED NZ NO. 578800

The X-Plug® is a “patented” mechanical plug specifically designed to SEAL the void formed in a concretewall 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.



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 Sika Greenstreak engineer for compatibility of the X-Plug® in your specific chemical environment.



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Installation

- Clear tie void of all loose debris. A taper tie void brush is recommended and available from Sika 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.



Important Considerations

Extreme Cold – At below freezing temperatures, Sika 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. Sika 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 Sika 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.

SIKA Greenstreak warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA GREENSTREAK SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Sika Greenstreak

3400 Tree Court Industrial Blvd.
 St. Louis, MO 63122
 800-325-9504 or
 636-225-9400
 usa.sika.com



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