

## PRODUCT DATA SHEET

# X-Plug

### Mechanical Plug for Taper Tie Voids

#### PRODUCT DESCRIPTION

The X-Plug® is a 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.

#### USES

X-Plug® is used for waterproofing of tapered tie rods and pass-through sleeves in walls of water retaining or excluding structures

#### CHARACTERISTICS / ADVANTAGES

- Easy to install
- Seal taper tie voids without grout on either side of the plug to a head pressure rating of nearly 300 ft
- 304 stainless steel bolt is compression set at 50 lbs. into the rubber grommet, to prevent spinning during installation
- 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
- Available in six different sizes to accomodate all conventional taper ties

#### PRODUCT INFORMATION

##### Packaging

The X-Plug® is provided in color coded, sealed pails to easily identify sizes

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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

<b>Shelf Life</b>	n/a
<b>Storage Conditions</b>	Store all materials in original, unopened containers

## TECHNICAL INFORMATION

<b>Compression Resistance</b>	34.5%	ASTM D395
<b>Tensile Strength</b>	13.2 MPa	ASTM D412
<b>Elongation</b>	410%	ASTM D412
<b>Water Absorption</b>	< 3.5%	ASTM D471

## APPLICATION INSTRUCTIONS

### APPLICATION METHOD / TOOLS

- 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.

### LIMITATIONS

**Extreme Cold** – At below freezing temperatures, Sika 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 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 engineer for details concerning specific environments and applications.

### BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

### OTHER RESTRICTIONS

See Legal Disclaimer.

### ENVIRONMENTAL, HEALTH AND SAFETY

#### LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN

- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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**Sika Corporation**  
201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: +1-800-933-7452  
Fax: +1-201-933-6225  
[usa.sika.com](http://usa.sika.com)

**Sika Mexicana S.A. de C.V.**  
Carretera Libre Celaya Km. 8.5  
Fracc. Industrial Balvanera  
Corregidora, Queretaro  
C.P. 76920  
Phone: 52 442 2385800  
Fax: 52 442 2250537



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