

## 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

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

XP004 is available in the UK as standard. Check availability of other sizes.

<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 with a circular brush.
- 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.

## VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## ECOLOGY, HEALTH AND SAFETY

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no war-

arranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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**Product Data Sheet**

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