Construction

X-Plug™

Tie Bar Plug

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 tie bar.

Uses

- Basement/below ground structures
- 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 Sika Ltd for compatibility of the X-Plug™ in your specific chemical environment.

Characteristics / Advantages

- Quick and easy to install
- Secure mechanical plug
- Versatile tie bar
- Highly chemical resistant
- Can be installed with a cordless, handheld power tool
- Can be installed from either side of the tie bar hole
- No additional waterproofing precaution needed
- Can be used with plastic tie-bar tubes (22mm dia)

Product Data

Form

Appearance / Colours	Black
Packaging	350 units per bucket The X-Plug™ is provided in sealed buckets. The empty buckets are useful for mixing grout after sealing tie bar voids.

Size	To fit tie bar size: 19.05 mm – 25.04 mm (¾ inch to 1 inch diameter) 11 mm (7/16 inch) fixing nut
Storage Conditions / Shelf Life	At below freezing temperatures, Sika Ltd recommends storing the product in a warm climate prior to installation to ensure maximum performance during installation.

Technical Data

Technical Testing	The X-Plug™ has the capability and reliability to seal tie bar voids without grout on either side of the plug to a head pressure rating up to 5.0 bar.
Chemical Resistance	The X-Plug™ is suitable for use in many, but not all chemical containment applications. Consult Sika Ltd for details concerning specific environments and applications
Technical Material	Stainless steel nut and bolt EPDM rubber plug 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.

Application Instructions

Installation	Clear tie bar void of all loose debris. A tie bar void brush is recommended. X-Plug™ will seat at 50-60% of wall thickness when properly selected. Attach a socket extension bar to handheld drill with an 11 mm (7/16 inch) hexagonal socket. 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 tie bar void can then be packed with grout if desired for aesthetics.
Setting/Adjusting Tie Bars	For maximum performance and to ensure the proper size X-Plug™ is ordered, the contractor should pay close attention to tie placement/shifting. Sika Ltd recommends that before tie bars are placed into the formwork, 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.

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.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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 warranty 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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