SINCE 1934

# TECHNO bit

TECHNOLOGY OF INSULATING MATERIALS




# iVAR WALL X20

## REIFNORCED FLEXIBLE MODIFIED BITUMEN MEMBRANE

## THE WISE CHOICE

+20 222 394 167

sales@technogroup-egypt.com
admin@technogroup-egypt.com

+2 010 2771 4174

**FACTORY**
Zero/ 157 A , Kilo17 - Misr / Bilbis road
El-Mohandsen El-Arab Association,
Al Sharqia, Egypt.

**HEAD OFFICE**
60-Mahmasha Street Al-Shrabya,
Cairo - Egypt.

**MADE IN EGYPT**

WWW.TECHNOGROUP-EGYPT.COM

## DESCRIPTION

**IVAR WALL X20** is a reinforced waterproofing system for foundations, basements, terraces, roofs, underground structures, and multi-storey carparks. It is easily applied on concrete substrates by torching the overlap or fully bonding.

Its reinforced composition ensures durable adhesion, dimensional stability, and flexibility to adapt to uneven surfaces, making it ideal for details such as expansion joints, recesses, corners, and pile-heads. The system's design also allows for faster, more efficient installation compared to conventional products.

## MAJOR FEATURES

- **High penetration resistance.**
- **Self-healing after puncturing.**
- **Easy anchoring and joining to concrete structures.**
- **3D mouldable, which makes detailing work (corners, piles etc.) safe and fast.**
- **Easy application: once unrolled, the overlap can be immediately sealed by propane torch.**

## SURFACE FINISH




## METHOD OF APPLICATION

- The product rolling is carried out to have the foil in contact with the concrete when directly unrolled (foil face exterior of the roll).
- The over laps are welded with propane gas torch/dry heat air and roll pressed. For tanking application, the longitudinal overlaps are 100 mm edge and the end overlaps are 150 mm edge.
- No additional cover strip is necessary. Optionally the membrane can be applied fully bonded.
- For instance on difficult details and vertical walls.

## SURFACE TREATMENT

- Ensure the substrates are clean and dry. Smooth and free of matter and conditions detrimental to bond and performance of the membrane.
- For good adhesion to (vertical) substrates, use waterbased bituminous primer.

## APPLICATION TEMPERATURE

- Temperature: - 5°C to+ 40°C. The membrane must be clean and dry.

## STORAGE & HANDLING

- The rolls should be protected against moisture and exposure to sunlight and be stored in horizontal position.
- The rolls shouldn't be stored near a source of heat.

# IVAR WALL X20

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| Properties<br>الخصائص | | Test<br>الإختبار | Unit<br>وحدة القياس | Test Method<br>طريقة الإختبار | Typical Values<br>القيم النموذجية | | |
|---|---|---|---|---|---|---|---|
| Dimensional Properties<br>خصائص الأبعاد | | Thickness<br>السمك | mm | EN-1849-1 | 3 | 4 | 5 |
| | | Width<br>العرض | m | EN-1848-1 | 1 | | |
| | | Length<br>الطول | m | EN-1848-1 | 10 | | |
| | | Straightness<br>درجة إستواء السطح ( الإستقامة ) | mm | EN-1848-1 | 20 | | |
| Compound Properties<br>خصائص الخليط البيتومينى | | Softening point (R&B)<br>درجة الليونة | ° C | ASTM D-36 | 115 | | |
| Membrane Properties<br>خصائص الغشاء | Mechanical Properties<br>الخصائص الميكانيكية | Tensile Strength (MAX)<br>مقاومة الشد القصوى | | | | | |
| | | *Longitudinal طوليا"* | N/5cm | EN 12311-1 | 800 | | |
| | | *Transverse عرضيا"* | N/5cm | EN 12311-1 | 600 | | |
| | | Elongation @ Break<br>أقصى معدل للإستطالة | | | | | |
| | | *Longitudinal طوليا"* | % | EN 12311-1 | 40 | | |
| | | *Transverse عرضيا"* | % | EN 12311-1 | 45 | | |
| | | Tearing Strength ( Nail-Shank )<br>مقاومة التمزق | | | | | |
| | | *Longitudinal طوليا"* | N | EN 12310-1 | 300 | | |
| | | *Transverse عرضيا"* | N | EN 12310-1 | 400 | | |
| | | Tensile-Tear Resistance<br>مقاومة التمزق - بطريقة الشد | | | | | |
| | | *Longitudinal طوليا"* | N | ASTM D- 5147 . D 4073 | 550 | | |
| | | *Transverse عرضيا"* | N | ASTM D- 5147 . D 4073 | 450 | | |
| | | Resistance to static loading<br>مقاومة الإختراق الإستاتيكي | KG | EN 12730 Method A | 15 | | |
| | | Resistance to Impact loading<br>مقاومة الإختراق االديناميكي | mm | EN 12691 Method B | 700 | | |
| | Thermal Properties<br>الخصائص الحرارية | Flow resistance @ Elevated Temperature<br>الثبات عند درجات الحرارة العالية | ° C | ASTM D-5147, EN-1110 | 110 | | |
| | | Cold Temperature Flexibility<br>المرونة عند درجات الحرارة المنخفضة | ° C | ASTM D-5147, EN-1109 | -20 | | |
| | | Dimensional Stability<br>ثبات الأبعاد | | | | | |
| | | Longitudinal طوليا" | % | EN 1107-1 | ±0.4 | | |
| | | Transverse عرضيا" | % | EN 1107-1 | ±0.4 | | |
| | Miscellaneous Properties<br>خصائص أخرى | Water Tightness<br>مقاومة نفاذية الماء | Kpa | EN 1928:2000 | 60 | | |
| | | Water Absorption<br>امتصاص الماء | % | ASTM D-5147,UNI 8202/22 | 3 | | |
| | | Vapour Permeability (μ)<br>نفاذية بخار الماء | μ | UNI 8202/23 , EN1931 | 20000 | | |
| | | Joints Strength Tensile Side Lap<br>قوة المفاصل شد الجانب المتداخل | N/5cm | EN 12317 | 600 | | |
| | | Joints Strength Tensile End Lap<br>قوة المفاصل شد نهاية التداخل | N/5cm | EN 12317 | 800 | | |
| | | Durability<br>المتانة | °C | EN1296, EN 1110 | 90 | | |
| | | Fire Classification - Extemal Fire Performance<br>تصنيف الحرائق - الأداء الخارجي في حالات الحريق | CLASS | EN 13501-5 | F | | |
| | | Reaction to fire<br>التعامل مع الحريق | CLASS | EN 13501-1 | F | | |

- Tolerance for Tear properties is ± 30 %
- Tolerances for the above values if not mentioned are according to the UEAtc directives.
- Exact value depends on thickness of the product.
- Product Technical specifications may be updated by TechnoBit without prior notice.
- Issue Date of this Techinical Data Sheet is **JULY / 2025**
  The Information Provided by This Issue Cancels Any Previous Issues.

ISO 9001 OHSAS 18001 ISO 14001