SINCE 1934

TECHNO bit

TECHNOLOGY OF INSULATING MATERIALS



iVAR

CARRIERLESS FLEXIBLE MODIFIED BITUMEN MEMBRANE

THE WISE CHOICE

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DESCRIPTION

IVAR is a waterproofing system for foundations, basements, terraces, roofs, underground or multi storey carparks. **IVAR** can easily be applied on the concrete substrate by torching the overlap or fully bonded. The composition of the product provides a durable adhesion, even on uneven ground. The product is unique in its kind because it has no reinforcement, so it automatically configures to the subsurface. Therefore, it is very suitable for making expansion joints, recesses and corners, such as pile- heads. The application is much less time-consuming than products which contain a carrier.

MAJOR FEATURES

- **5 mm thickness.**
- **1600 % elongation with full recovery.**
- **No reinforcement inside the membrane.**
- **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.**
- **Takes any shape without need for cutting.**
- **No fillers added to the compound.**
- **One layer of 5 mm IVAR is superior to two or more layers of reinforced membranes.**

SURFACE FINISH

White Fine Sand 

HDPE Film 

Mineral slates 

VARIOUS EDITIONS

IVAR SA 

IVAR DUO 

IVAR NW 

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

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Properties الخصائص		Test الإختبار	Unit وحدة القياس	Test Method طريقة الإختبار	Tolerance السماحية	Typical Values القيم النموذجية
Dimensional Properties خصائص الأبعاد		Thickness السمك	mm	EN-1849-1	± 0.5	5
		Width العرض	m	EN-1848-1	-	1
		Length الطول	m	EN-1848-1	-	6 / 8
		Mass الكتلة	kg/m²	EN-1849-1	± 0.52	5.2
Membrane Properties خصائص الغشاء	Mechanical Properties الخصائص الميكانيكية	Tensile Strength (MAX) مقاومة الشد القصوى				
		Longitudinal طوليا"	N/mm²	ISO 37	± 0.2	1.2
		Transverse عرضيا"	N/mm²	ISO 37	± 0.2	1.2
		Elongation @ Break أقصى معدل للإستطالة				
		Longitudinal طوليا"	%	ISO 37	± 150 %	1600
		Transverse عرضيا"	%	ISO 37	± 150 %	1600
		Resistance to static loading مقاومة الإختراق الإستاتيكي	KG	EN12730	-	20
		Resistance to Impact loading مقاومة الإختراق االديناميكي Aluminium EPS 150	mm	EN12691	-	 500 2000
	Miscellaneous Properties خصائص أخرى	Filler Content محتوى الحشو	-	-	-	0%
		Visible Defects العيوب ظاهرة	-	EN-1850-1	-	No visible defects
		Cold Temperature Flexibility المرونة عند درجات الحرارة المنخفضة	° C	EN-1109	-	≥ -25
		Chemical resistance (seaside chemicals) المقاومة الكيميائية (الكيماويات الساحلية)	-	EN13969	-	Resistant to chlorides, nitrates and sulphates
		Water Tightness مقاومة نفاذية الماء	Kpa	EN-1928	-	500
		Water Tightness After Ageing (12 weeks @ 80 °C) مقاومة نفاذية الماء بعد التقادم (12 أسبوعًا عند 80 درجة مئوية)	Kpa	EN1296 - EN1928	-	500
		Vapour Transmission نفاذية بخار الماء	μ	EN1931	-	50400
		Vapour Transmission After Ageing نفاذية بخار الماء بعد التقادم	μ	EN 1296 - EN 1931	-	78800
		Peel resistance of joints تقشير المفاصل المقاومة	-	EN 12316-1	-	Does not peel
		Shear resistance of joints مقاومة القص للمفاصل	-	EN 12317-1	-	Does not shear
		Reaction to fire التعامل مع الحريق	Class	EN 13501-1	-	E-d2

- ± 10 % variance in the values is accepted.
- 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 **FEB / 2025**
  The Information Provided by This Issue Cancels Any Previous Issues.

ISO 9001 OHSAS 18001 ISO 14001