

# isoFlex PVC®



## Description

The isoFlex PVC® a Supercast waterstops are extruded from a high grade PVC compound which has been formulated to give excellent flexibility and longevity characteristics. They are available as straight lengths and factory produced intersections or as a factory prefabricated segment of a network to minimize site jointing.

## Key Features

Multi-rib selection, providing tortuous and impenetrable water checks Clips facilitate easy fixing. Material and cross-section allow extremely easy on site welding. iChem quality is in high strength polyvinyl chloride material.

- isoFlex PVC® is resistant to Seawater, Salt solution, Potable and Sewage water.
- Range of profiles to suit every need.
- Simple on-site jointing.
- Adheres to concrete.
- Versatile in use.
- Economical.

## Uses

The isoFlex PVC® range of PVC waterstops is designed to provide an integral sealing system for movement and construction joints in concrete cast in-situ. These joints typically occur in the following types of structure:

### Water retaining

- Reservoirs, water towers and sewage tanks.
- Dams, culverts, canals and spillways.
- Swimming pools.
- Bundled areas surrounding liquid retaining tanks.

### Water excluding



## Application Instructions

**Welding:** Waterstops are made from thermoplastic PVC and can therefore be welded. The ends are heated with welding equipment until the PVC gets plastic and then immediately pressed together.

isoFlex PVC® are allowing easy on site welding, including the prefabrication of cross, T, L and corner pieces.

A wide ranges of standardized junction pieces are available. All have a 30 cm free leg, allowing easy site welding to Waterbars. In case non-standardized junction pieces are required, drawing must be provided, giving exact details of angles.

## Packing

Available in Rolls at 15 & 20 & 30 meter

## Shelf Life



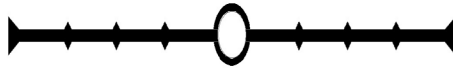


Open shelf life as long as it is stored away from heat and fires sources. .

## Health and safety

As with all construction chemicals products caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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Centrally Profile					
Profile Type		Width(cm)	Roll Length(m)	Thickness-mm (10%)	Max. Water head(m)
		Construction Joint Profile			
Standard	V20	20	20	6	15
	V24	24	20	6	25
	V32	32	15	6	30
Light	V20-L	20	30	4	10
	V24-L	24	30	4	15
	V32-L	32	20	4	25
		Construction Joint Special Profile			
Standard	SV20	20	15	6	15
	SV24	24	15	6	25
	SV32	32	15	6	30
Light	SV20-L	20	15	4	10
	SV24-L	24	15	4	15
	SV32-L	32	15	4	25
		Expansion Joint Profile			
Standard	O20	20	15	6	15
	O24	25	15	6	25
	O32	32	15	6	30
Light	O20-L	20	15	4	10
	O24-L	25	15	4	15
	O32-L	32	15	4	25
Surface Profile					
Profile Type & Drawing		Width(cm)	Roll Length(m)	Thickness-mm (10%)	Max. Water head(m)
		Expansion Joint Profile			
Standard	OR25	25	15	4	10
	OR32	32	15	4	15
		Construction Joint Profile			
Light	R20	20	15	4	5
	R24	24	15	4	10
	R32	32	15	4	15

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Profile Type	Details Drawing
<p><b>Construction Joint Profile</b></p>	
<p><b>Construction Joint Special Profile</b></p>	
<p><b>Expansion Joint Profile</b></p>	
<p><b>Expansion Joint Profile</b></p>	
<p><b>Construction Joint Profile</b></p>	

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CERT

EPRI  
Egyptian Petroleum Research Institute (EPRI)  
مركز حماية الأسطح المعدنية spc  
ISO 17025, 14001, 19001, 9002

وزارة البحث العلمي والتكنولوجيا  
معهد بحوث البترول المصري  
مركز حماية الأسطح المعدنية spc

تقرير فني لعينة مطاط  
الخاص بشركة ( iChemEG )

تاريخ : 2023/7/19

العينة: قطاع من شريط مطاطي لونه أسود من مادة (isoFlex PVC)

السادة شركة ( iChemEG )

لقد تمت الاختبارات لقطاع من شريط مطاطي لونه أسود من مادة (isoFlex PVC) طبقاً للمواصفات القياسية العالمية وقد سجلت النتائج في الجدول التالي

Test type	Results	Reference value	Standard	Remark
Tensile strength	14.58N/mm <sup>2</sup>	≥ 10 N/mm <sup>2</sup>	DIN 53455	Accept
Tear strength	14.61 N/mm	≥ 12 N/mm	DIN 53507 A	Accept
Shore A Hardness	95	90 ± 5	DIN 53505	Accept
Elongation at Break	312 %	> 300 %	DIN 53455	Accept

الخلاصة : العينة اجتازت الاختبارات السابقة بنجاح طبقاً للمواصفات القياسية العالمية

استشاري المركز  
أ.د. أسامة أبو العينين

مدير مركز حماية الأسطح  
أ.د. أشرف السعيد

EPRI  
NO  
Inspection  
معهد بحوث البترول المصري

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