IDROSTOP PVC BI BE ME

PVC waterstop for sealing expansion and cold joints

WHERE TO USE

For waterproofing expansion and cold joints in new or existing civil, industrial, and hydraulic constructions.

TECHNICAL CHARACTERISTICS

Idrostop PVC ME is a highly flexible waterstop especially formulated using high-quality thermo-plastic vinyl resins with excellent flexibility, which create a product with good resistance to mechanical stresses and excellent chemical resistance in alkaline environments, seawater, and acidic conditions.

The dimensions and type of **Idrostop PVC ME** used for each application generally depends on the following parameters:

- type of structure
- amount and type of movements predicted (no movement, axial movement, a combination of axial and transversal movements, etc.)
- thickness of the cast concrete

APPLICATION PROCEDURE

Idrostop PVC BIC/BIE ME - embedded in the concrete

This type of joint is positioned at half thickness of the concrete or as per the project design and drawings. The waterstop must be stretched and held in position utilizing the eyelets along both edges fixed to nearby reinforcement.

In case of expansion joints, so when **Idrostop PVC BIE ME** is used, insert a suitable type of compressible material between the first and second cast of concrete to form the joint and to avoid that this one is clogged by a rigid material.

Idrostop PVC BEC/BEE ME - to be secured to the formwork

This type of profile is fastened in place by nailing it directly to the formwork or the layer of lean concrete. The waterstop ribs must face towards the next layer of cast concrete so that it forms a perfect bond.
In case of expansion joints, to be treated with **Idrostop PVC BEE ME**, as with embedded joints, insert a suitable type of compressible material between the first and second cast of concrete to form the joint and to avoid that this one is clogged by a rigid material.

Concrete shall totally embrace the ribs and it can be only done by selecting the proper concrete mix and the right vibrator diameter. When vibrating the concrete, care must be taken to avoid damaging or moving the waterstop.

HOT-WELDING THE ENDS OF THE JOINT ON SITE

The procedure to weld the **Idrostop PVC ME** on site and create a perfect weld is by using proper thermostatically controlled welding blade and an adjustable jig. The ends of the parts to be joined must be cut straight and perfectly aligned.

Insert the heating blade between two pieces of the **Idrostop PVC ME** until an even molten bead of PVC is formed. Remove the heating blade, and firmly press both ends together to achieve a perfectly fused, sealed weld.

Only transverse joints shall be formed by welding on site. All the other junctions and joints are advised to be produced with prefabricated sections. These are available in many different configurations and detailing sections to reduce the number of joints formed on each site to a minimum.

PACKAGING

Idrostop PVC ME is supplied in rolls.

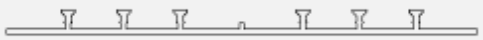
STORAGE

Store in a dry place at a temperature of between +10°C and +40°C.

SAFETY INSTRUCTION FOR PREPARATION AND APPLICATION

IDROSTOP PVC ME is an article and referring to the current regulations does not require the preparation of the Safety Data Sheet. During use it is recommended wearing gloves and goggles and following the safety requirements of the workplace.

TECHNICAL DATA (typical values)

Profiles	Use	Type	Width (mm)	Roll Length (m)	Normal thickness (middle of the profile) (mm)
	External-Construction Joints	BEC 20	200	15	4
		BEC 25	250	15	4
	Internal-Construction Joints	BIC 20	200	15	4
		BIC 25	250	15	4
	Compartment PVC system	BEC 32	320	15	3
		BEC 32T	320	10	4
	Compartment PVC system	BEC 400	400	10	4
	External-Expansion Joint	BEE 20	200	15	4
		BEE 25	250	15	4
	Internal-Expansion Joint	BIE 20	200	15	4
		BIE 25	250	15	4

Profile Junctions	Use	Type
	Three-way Flat Junction	BEC 25 BEC 32 BEC 400 BIC 25 BIE 25
	Four-way Flat Junction	BEC 25 BEC 32 BEC 400 BIC 25 BIE 25

Typical physical-mechanical properties	Method	u.m.	Results
Hardness	ISO 868 ASTM D2240	Shore A	>80
Weight density	ISO 1183 ASTM D792	G/cc	1.31±0.03
Tensile strength	ISO 527 ASTM D638	N/mm^2	14
Breaking strain	ISO 527 ASTM D638	%	min 300
Operational temperature	-	°C	-30°C to +70°C

IMPORTANT NOTES

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that installers satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification. The installer should ensure that our latest product data sheets have been consulted prior to use.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.ae.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into other project-related documents, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation. The most up-to-date TDS can be downloaded from our website www.mapei.ae.

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

All relevant references for the product are available upon request and from www.mapei.com.

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