FLEXLINE

EPDM RUBBER CONSTRUCTION JOINT WATERPROOFING SYSTEM

DESCRIPTION

FLEXLINE is a highly recommended construction and expansion joint waterproofing system. It is based on a synthetic rubber technology developed in Switzerland since more than 15 years ago. The **FLEXLINE** range is especially designed to be adhered with 2-components epoxy adhesive (CMFIX 100) and to be connected with any waterproofing system. It is available in both 150 mm and 200 mm width: **FLEXLINE 150** or **FLEXLINE 200**. **FLEXLINE** range is manufactured in Switzerland.

FLEXLINE and all related accessories and tools are marketed by CHEMIND Malaysia and are applied worldwide by Flexjoint Approved Applicators.

WHY FLEXLINE?

FLEXLINE waterproofing	Suitable for many surfaces like wood, glass, concrete, aluminium and other metals
Epoxy Joint	No hand-welding, automatic vulcanized, no room for human error
Versatility	Due to its' factory engineered special pieces, FLEXLINE can accommodate to any details. All sizes with different angles can be custom made.
Fast Installation	Pre-cut rolls' length according to site requirements. Minimize labour with pre-fabricated special pieces.
Proven Performance	15 years of references, tested and approved worldwide.

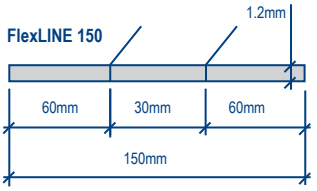
FLEXLINE has been especially designed for countries where the temperature stability is reducing the expansion contraction movements, i.e. tropical countries where usually the temperature varies from 10 to 40 °C.

TECHNICAL DATA

Property	Unit	Method	Result
Thickness	mm		1.2
Tensile Strength	N/mm^2	ASTM D628	> 4.8
Elongation	%	DIN 53504	> 700
Tear Strength	N/mm		> 9.9
Density	g/cm^3		1.48
Fire Rating			B2
Temperature Resistance	°C		Up to 90
Cold Flexibility	°C		- 40
Dimensional Stability	%		< -0.3

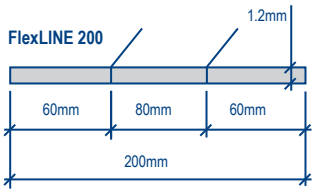
Flexline 150

High grade Butyl synthetic rubber



MAF (Movement Accommodation Factor):
Horizontal movement: ±12 mm

Flexline 200



MAF (Movement Accommodation Factor):
Horizontal movement: ±32 mm

TYPE

EXPANSION JOINT

ADVANTAGES

MONOLITHIC & SEAMLESS | SWISS STANDARD | HIGH ELONGATION | HIGH TENSILE

COMPONENT

1 PART

FLEXLINE

EPDM RUBBER CONSTRUCTION JOINT WATERPROOFING SYSTEM

High Chemical Resistance :

Ozone, alkali acids, saline solutions, water and steam, polar solvents such as alcohol and ketone.

Low Chemical Resistance :

Homopolar emollients and solvents (eg: mineral oils, benzene, fuels and aromatic compounds like toluene).
Prolonged contact with these agents should be avoided.

Documented Quality and Reliability

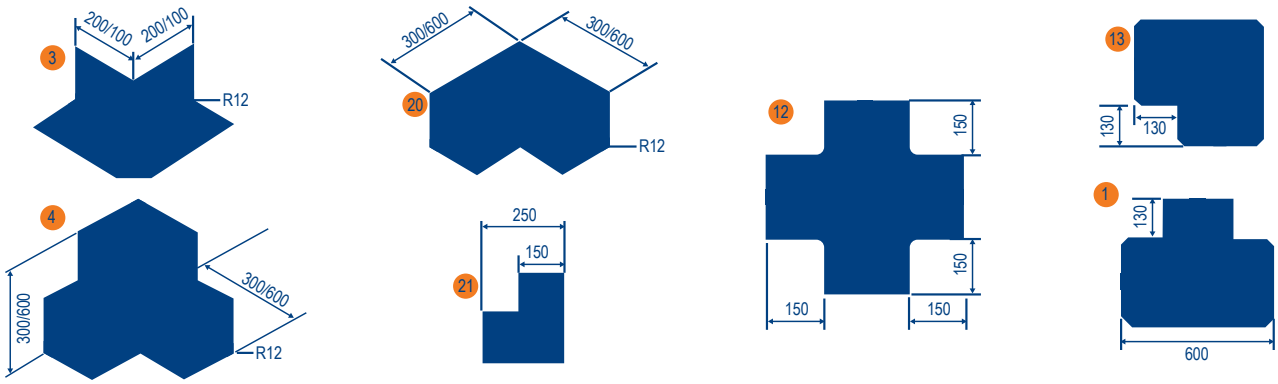
FLEXLINE expansion and construction joints waterproofing systems are manufactured in production units certified ISO 9001. They have been tested and approved by several internationally recognized Laboratories and Authorities. Copies of these reports are available upon request. All Flexjoint materials and systems are covered by a 10-year warranty backed by Switzerland's Flexjoint GmbH.

Laboratory	Reference	Test Purpose
STUVA	1992 1997	Sealing systems for parking deck seals and for seals to withstand water pressure.
LPM	1994 No. 15061-1 No. 15063-1	Expansion and contraction testing of REDLINE applied on concrete, metal and bitumen surfaces with epoxy resin.
EMPA	No. 171 123 20.01.1998	Adhesion of FLEXLINE on metal sheet with Epoxy Resin.
FLL	01.12.1999	4 years test on root resistance.
LPM	No. A-30'313-2E 27.04.2006	FLEXLINE 150 overlap waterproofing test.
AbP	No. 22000802 02.01.2001	FlamLine material tests.

INSTALLATION DATA

Special Details Pieces:

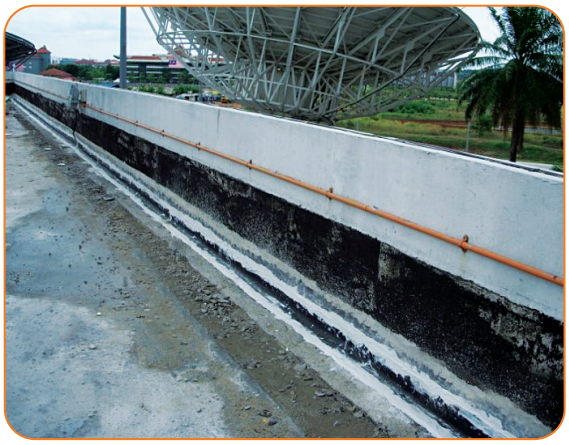
T-joints, X-joints, corners, curves and other details are not manufactured on site but ordered to CHEMIND and prefabricated in CHEMIND's workshop. Factory engineered detail pieces ensure a total quality and reliability.



FLEXLINE

EDPM SYNTHETIC RUBBER REINFORCED POLYSTER FLEECE EXPANSION JOINT





Substrate Preparation:

Remove any cement film by grinding or sandblasting loose and damaged concrete. Use a grinding machine with a brush attachment. Clean the concrete surface thoroughly. Roughen smooth concrete surfaces using a grinding tool to ensure a proper bond. Repair holes, recesses or honey comb using a non-shrink grout with a rough surface finish.

Adhesive Selection:

FLEXLINE recommends the use of a high-grade 2-components low viscosity epoxy adhesive, CMFIX 100.

Always follow the epoxy adhesive manufacturer's recommendations concerning mixing method ratio and pot life.

FLEXLINE Installation:

The **FLEXLINE** membrane rolls are laid over the expansion joint over a coat of epoxy adhesive approximately 1 mm thick and 70 to 80 mm wide to be mixed and prepared as per the Manufacturer's instructions.

Press firmly with a roller over the **FLEXLINE** membrane edges in the adhesive and cover it with a second coat, 1 mm thick, 70 to 80 mm width to completely encapsulate the reinforced **FLEXLINE** edges.

Mechanical Protection

According to the project's conditions, **FLEXLINE** can be protected with an adapted cover. Contact CHEMIND for assistance and design.

Legal Notes:
'Statements made in this bulletin are for the assistance of our customers. They are based on our experience and judgment but must not be regarded as amounting to a legal warranty or as involving any liability on our part. 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 this product must test the product's suitability for the intended application and purpose. CHEMIND reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. Users may always refer to the most recent issue of our Product Data Sheet for the products concerned, copies of which will be supplied upon request.'

Made In Malaysia

SCOPE OF REGISTRATION AND STANDARDS

Manufacture of Waterproofing materials. Compliance with ASTM technical standards and AS 3740 - 2004 Australia Standard. SIRIM certification is available for selected products upon request, subject to applicable testing and certification requirements.

CHEMIND

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SIRIM

ASTM INTERNATIONAL Standards Worldwide

CHEMIND AUSTRALIAN TECHNOLOGY

REF: PDS30310526