

Enviro Flex FL

Engineered Polyurethane Sealant



DESCRIPTION

Enviro Flex FL is a fast curing, high performance, neutral cure, elastomeric polyurethane joint sealant that forms part of Envirosystems waterproofing systems. Enviro Flex FL is designed for use under waterproofing membranes as a cove joint for movement junctions such as floor wall junctions.

FEATURES

- Excellent adhesion
- Rapid skinning and fast cure
- UV stable
- Long term durability
- Excellent bi-axial flexibility
- Excellent organic chemical resistance
- Very low VOC content
- Low dirt pick up
- Non-staining
- Paintable after cure
- Permanently flexible
- Stable - No shrinkage
- Bonds and Seals at the same time
- Short cut-off string
- Adhesion to a wide range of substrates
- Non-sag consistency - Good thixotropy
- Allows equalised stress transfer due to permanent elasticity
- Vibration and sound dampening properties
- Over-paintable with many water/solvent based paints (preliminary tests recommended)
- High pick resistance

TYPICAL USES

Enviro Flex FL can be used for sealing internal corners between building components such as concrete panels, fibre cement sheets, block and brickwork, and around window and door frames prior to membrane application. Enviro Flex FL is suitable for commercial and residential, internal and external applications.

- Internal & External Wet Areas
- Basements, walls & floors
- Plant rooms
- Planter boxes
- Bathrooms
- Podiums
- Balconies
- Retaining Walls
- Prisons, schools and public amenities

PHYSICAL PROPERTIES

Appearance	Thixotropic paste
Colour	Grey
Curing Mechanism	Moisture curing
Curing through volume (23°C at 50% R.H.)	2.0 - 3.0mm per day
Non-sage Properties	Good
Shore A (23°C at 50% R.H.)	40±5
Density (23°C at 50% R.H.)	1.35 ± 0.02g/cc
Tack free time (23°C T 50% R.H.)	45 mins (approx.)
Elastic Modulus at 100%	≥0.85 N/mm ²
Tensile Strength (N/mm ²) (ISO 37 DIN53504)	≥1.9 N/mm ²
Elongation	≥500%
Application Temperature	5°C to 40°C
Temperature Resistance (short term up to 120mins)	-40°C to -90°C



SUBSTRATE PREPARATION

Surfaces must be clean and free from all contamination such as dust, laitance, grease coatings curing compounds and any other foreign matter. Remove all sharp edges including screws, nails and concrete/mortar projections. Drainage and falls must be provided for as per the relevant Australian Standard.

Enviro Flex FL is suitable for use over the following substrates:

- Concrete - Cured for min. 28 days
- Renders - Cured for min. 7 days
- Timber
- Masonry Substrates - Brick, blocks, etc.
- Fibre cement sheets
- Aluminium

NOTE: Do not apply Enviro Flex FL to any concrete that has received concrete artificial curing compounds or aluminium that may have been treated. Do not apply sealant where there is high humidity or when rain is anticipated within 2 hours of application. Not suitable for contact with bitumen or bituminous products.

NOTE: Test oil based paints prior to application for suitability. Some substrate preparations may initially require mechanical grinding in order to provide an adequate surface profile and to promote optimum adhesion for the membrane system.

For further information on substrate preparation or for project specific advice, please consult EnviroSystems.

customerservice@envirosystems.com.au

PRIMING

Enviro Flex FL achieves excellent adhesion to suitably prepared substrates without the use of primers. However, for critical applications adhesion may be improved with the use of an approved primer. Contact EnviroSystems for recommendations on approved primers.

NOTE: For further information on applications that may not require priming or for project specific advice, please consult EnviroSystems.

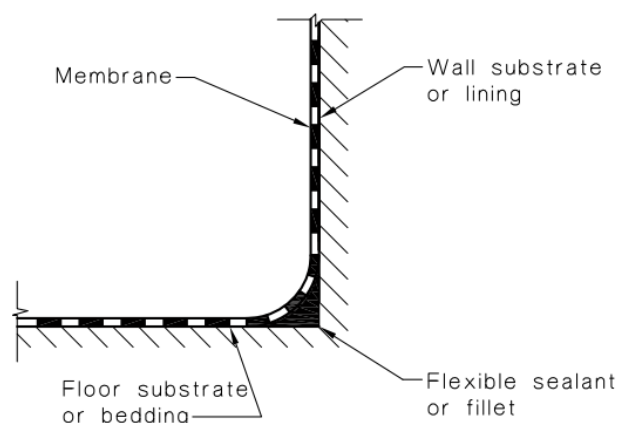
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APPLICATION

Enviro Flex FL is to be applied using an appropriate caulking/sausage gun. Pierce through the protective membrane in the front threaded section, screw on the plastic nozzle and cut it at an angle according to the desired bead thickness and profile.

Fit the cartridge into a manual or pneumatic air operated gun (provided with telescopic piston) and extrude the adhesive/sealant carefully preventing air entrapment.

Once opened, packs should be used up within a relatively short time. Apply Enviro Flex FL firmly into the internal corner or joint and tool to the required cove size as per the relevant Australian Standard.



For further information regarding application of Enviro Flex FL or for project specific advice please consult EnviroSystems.

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COVERAGE

The coverage of Enviro Flex FL will depend on the type of substrate, the substrate conditions and the size of the cove. When prepared and primed in accordance with the instructions above, the following coverage rates should be expected.

600ml Sausage	8 lineal metres (12mm x 12mm cover)
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PACKAGING & COLOURS

Enviro Flex FL is supplied in a 600ml sausage, 20 sausages per carton.

CURE

Tack free time for Enviro Flex FL is 45 mins.

Cure through time for Enviro Flex FL is 2.0 - 3.0mm per day.

CLEANING

Enviro Flex FL should be removed from all tools and equipment, prior to hardening with Enviro Thinners No.1. Observe all OH&S and MSDS information pertaining to the safe usage and handling of solvents. Cured material can only be removed mechanically.



SHELF LIFE

Enviro Flex FL can be stored in its original sealed containers for 12 months in controlled environments. During storage a skin of Enviro Flex FL may form which is easily removed.

This does not affect the performance of the product. Enviro Flex FL is sensitive to airborne moisture. It is preferable to use all contents of container after opening. Always check product quality before using after prolonged periods of storage. If unsure, please contact EnviroSystems for advice.

HEALTH & SAFETY ADVICE

Enviro Flex FL contents are flammable. Keep away from naked flame. In the event of fire extinguish with foam or CO. Always provide adequate ventilation and wear appropriate Personal Protection Equipment (PPE) during use. Avoid breathing vapours and contact with skin. If swallowed, DO NOT induce vomiting, give a glass of water and seek immediate medical advice. If contact with skin, wash off splashes of material with clean water and soap. If irritation occurs seek immediate medical advice. Refer to the Safety Data Sheet for full safety and handling procedures.

NOTE: Safety Data Sheets are available upon request by emailing customerservice@envirosystems.com.au

We're here to help you!

It is a good idea to keep a journal of your job, whether big or small.

- Take pictures at all stages of your work, including preparation
- Record the quantity and description of products used with corresponding batch numbers
- Record dates and times of when you applied products, from start to finish

Please do not hesitate to contact us for any questions you may have.

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environmentally responsible technology

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