

Enviro Gel 165

Hydrophilic PU Injection Foam



DESCRIPTION

Enviro Gel 165 is a single-component, high-performance, hydrophilic polyurethane injection foam. Its low viscosity and high elongation make it ideal for sealing leaking cracks or joints where movement is possible, and for structures with continuous moisture exposure. It is best suited to consistently damp or wet environments.

AREAS OF USE

SURFACES: Cracked or leaking concrete in damp or wet conditions.

AREAS: Tunnels, basements, water and wastewater treatment, car parks, retaining walls, and manholes.

FEATURES & BENEFITS

- Hydrophilic – high water-stopping performance
- Easy to use, single pack
- Highly flexible for live structures
- Compatible with most surfaces
- Rapid foam and gel times

PRODUCT INFORMATION

Packaging	20kg Cube
Mix Ratio	Single component
Shelf Life	12 months

PHYSICAL PROPERTIES

Property	Test Method	Test Result
Viscosity @ 25°C	–	800 cps
Tensile Strength	–	2.55 MPa
Elongation at Break	–	400%
Start of Foaming	1–3 parts water @ 25°C	45 seconds
Gel Time	1–3 parts water @ 25°C	55 seconds
End of Foaming	1–3 parts water @ 25°C	200 seconds

COVERAGE RATE

Consumption depends on crack width, depth, and water flow. For project-specific quantities, contact EnviroSystems technical support.

SUBSTRATE PREPARATION

Evaluate the joint or crack. Drill holes on both sides at approximately 45° towards the crack, starting 120–150mm from it. Insert packers to a depth of approximately 100mm. Pre-inject with water to prime and assist the reaction.

APPLICATION

Mixing: Supplied ready to use – no mixing required.

Application: Start from the widest part of the crack and inject outwards in each direction. Slowly increase pump pressure to a maximum of 30 bars. Pause for 1–2 minutes after every litre injected. Continue start–stop injection until the packer will no longer accept material or the specified pressure is reached, then move to the next packer. Continue until the crack is full and sealed. Enviro Gel 165 may be injected with water at a 1:1 ratio.

Follow-up: Monitor effectiveness and allow 2 days before returning for any additional injection.

For applications or situations not covered above, contact EnviroSystems technical support.

CLEANING

For cleaning recommendations, contact EnviroSystems technical support.

LIMITATIONS

- Do not exceed 30 bar injection pressure.
- Best suited to consistently damp or wet environments.

HEALTH & SAFETY ADVICE

Enviro Gel 165 is non-hazardous according to Safe Work Australia criteria. As a precaution, provide good ventilation, wash splashes with clean water and wear gloves and eye protection. If irritation occurs, seek medical advice. Refer to the Safety Data Sheet for full safety and handling procedures.

KEEP OUT OF REACH OF CHILDREN

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to accuracy, reliability, or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of



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products for their intended use.

NOTE: Field service where provided does not constitute supervisory responsibility. Suggestions made by EnviroSystems, either verbally or in writing may be followed, modified, or rejected by the owner, engineer, or contractor since they, and not EnviroSystems, are responsible for carrying out procedures appropriate to a specific project.

NOTE: All products manufactured by EnviroSystems comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

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