

Enviro Gel 155

Hydrophobic PU Injection Foam

DESCRIPTION

Enviro Gel 155 is a catalysed, hydrophobic polyurethane injection foam that, when mixed with Enviro Gel 155-ADD accelerator, forms a high-foaming, fast-setting, water-reactive injection resin. It is designed for sealing, grouting, and elastically connecting concrete cracks, rock fissures, and structures.

AREAS OF USE

SURFACES: Cracked or leaking concrete and rock.

AREAS: Basements, tunnels, retaining walls, ground anchors, ground stabilisation, and concrete foundations.

FEATURES & BENEFITS

- Low viscosity for fine crack penetration
- Fast-reacting, effective water stopping.
- Excellent adhesion to multiple surfaces
- Elastic – accepts movement between elements.
- High volume expansion with no shrinkage

PRODUCT INFORMATION

Packaging	21kg Kit – 20kg Enviro Gel 155 + 1kg Enviro Gel 155-ADD
Mix Ratio	0–10% Enviro Gel 155-ADD
Colour	Amber
Shelf Life	12 months

PHYSICAL PROPERTIES

Property	Test Method	Test Result
Viscosity	–	≈300 cps
Density	ASTM D1622	64 kg/m ³
Water Absorption	ASTM D2127	<1%
Shear Strength	ASTM C273	135 kPa
Tensile Strength	ASTM D1623	186 kPa
Elongation	ASTM D1623	50%

Foaming / ADD	5°C	10°C	15°C	25°C
Start (5%)	10 seconds	9–10 seconds	9–10 seconds	8–9 seconds

Foaming / ADD	5°C	10°C	15°C	25°C
End (5%)	56 seconds	58 seconds	47 seconds	45 seconds
Start (10%)	10–11 seconds	10–11 seconds	9 seconds	8 seconds
End (10%)	47 seconds	45 seconds	38 seconds	32 seconds

Foaming factor 35–50 at all temperatures.

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 fissure. Drill holes on both sides of the defect at approximately 45° towards it – depth and spacing depend on water flow and site conditions. Insert packers at a depth that allows resin to reach the defect freely.

APPLICATION

Mixing: Calculate the required amount of Enviro Gel 155-ADD within the 0–10% range. Measure and mix with a slow-speed mixer (400 rpm) for at least 3 minutes.

Application: Start from the widest part of the crack and inject outwards in each direction. Slowly increase pump pressure to a maximum of 30 bar. 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.

Follow-up: Monitor effectiveness and allow 2 days to settle 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.
- Do not exceed 10% Enviro Gel 155-ADD.



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HEALTH & SAFETY ADVICE

Enviro Gel 155 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 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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