

Enviro Insulfoam HD

Rigid, High Density Polyurethane Foam



DESCRIPTION

Enviro Insulfoam HD is a two component polyurethane HFC blown foam to produce a nominal density 90kg/m³ sprayed in place polyurethane foam insulation.

FEATURES

- Fast drying
- Easy to apply
- No CFC compounds
- Economical
- Excellent compressive strength
- High reactivity
- Solvent free
- Easy mix ratio

TYPICAL USES

Insulation of walls, floors, decks and other areas. Enviro Insulfoam HD is suitable for commercial and residential applications.

- Roof insulation
- Walls and ceiling insulation
- Cool room insulation
- Filling voids in structures
- Silos and storage vessel insulation
- Pipeline insulation
- Factory and shed insulation

PHYSICAL PROPERTIES

Density (sprayed in place)	90kg/m ³
Closed Cell Content (AS2498.3)	96%
Compressive Strength (AS2498:3) parallel to the rise of foam	1497kPa
Compressive Strength (AS2498:3) perpendicular to the rise of foam	1126kPa
Thermal Conductivity (C518)	0.02714W/mK
Mix Ratio (by volume): 1:1	1:1
Appearance Part A: Clear, Light Amber liquid	A: Light amber liquid B: Brown liquid
Specific Gravity @ 22°C	A: 1.10 B: 1.23
Brookfield Viscosity (cps) @ 22°C	A: 520 B: 250
Curing (seconds)	
Gel Time	24
Tack Free Time	34
Foam Density (dependant on thickness)	90 – 120 kg/m ³

SUBSTRATE PREPARATION

Application should only be in accordance with training provided by EnviroSystems Technologies and by experienced accredited applicators. Accredited applicators must ensure the suitability of material for intended use prior to installation and any such determination is solely the responsibility of the purchaser.

The surface must be clean, dry and free from all loose particles including dust, laitance, grease, coatings, curing compounds and any other foreign matter. The substrate must be prepared by way of degreasing, grinding or captive shot blasting to provide an adequate surface profile.

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

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PRIMING

Priming of Enviro Insulfoam HD is dependent on substrate and weather conditions. As a general rule for priming, a light, thin dust coat of Enviro Insulfoam HD can be applied and allowed to cure before proceeding with normal application. Alternatively, on porous substrates Enviro Prime P2 can be applied (refer Enviro Prime P2 Product Data Sheet for directions on application).

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

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MIXING

Typical application / processing parameters include an AP Fusion Gun and AR2020 mixing chamber with 1:1 plural component spray machinery such as a Graco E-10 or XP-2.

APPLICATION

Application of Enviro Insulfoam HD should be to a maximum dry thickness of 25mm per pass. Allow Enviro Insulfoam HD to sufficiently cure before any subsequent pass. Dry Film thickness of each pass and final film thickness of Enviro Insulfoam HD can be measured by placing a spiked gauge into the cured foam until end of spike touches the substrate. Product usage varies area covered should also be noted throughout the application process as this will provide another method of determining average dry film thickness.

NOTE: Enviro HP1200 and HP1200PW can be applied directly over Enviro Insulfoam HD without the use of a primer. For optimum adhesion to Enviro Insulfoam HD apply subsequent Enviro membrane between 24 and 48 hours.

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

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COVERAGE

The consumption of Enviro Insulfoam HD will depend upon substrate condition and type.

Recommendations for Application

1 kg of Enviro Insulfoam will expand to roughly 0.01-0.0125m³.

CURE

Enviro Insulfoam HD should be allowed to cure for 10 minutes prior to applying further passes. When the application of a waterproofing membrane such as Enviro HP1200 or HP1200PW is required, apply membrane between 1 hour and 72 hours from final application of Enviro Insulfoam HD.

PACKAGING & COLOURS

Enviro Insulfoam HD is supplied in 43kg kits and 480kg kits.

HANDLING PROCEDURES

The components are sensitive to humidity and should at all times be stored in sealed drums. The recommended storage temperatures are between 18-25°C, which will give a normal shelf life of 3 months. At elevated temperatures problems may arise with pressure build up within the drums. When opening these drums care must be exercised in releasing the internal pressure. It is recommended that the polyol be mixed well before use.

HEALTH & SAFETY 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 waterproofing 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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