

News Release

EncaSeal™ 100% protection for duct and pipe insulation

EncaSeal™ has been specifically developed by Apollo Energy Research to completely Encase and Seal most types of insulation used in the HVAC sector.

This new 130 micron thick heat reflecting material from Apollo Energy Research is compatible with phenolic, nitrile, carbon impregnated polyurethane and fibre insulation used on air-conditioning ducts, pipe work and storage tanks plus transport, marine and OEM applications. The aluminium surface of EncaSeal has a special coating that ensures it's UV resistant, bright surface never tarnishes. 100% waterproof and bug proof, this Class 0 fire rated material has a Valeron® cross laminated HDPE substrate core making it difficult to puncture or tear, properties essential for a long working life and keeping wastage to a minimum during installation. One side of the sheet is coated with a specially developed waterproof acrylic adhesive with release liner. Once EncaSeal is in position, the adhesive is formulated to migrate into the tarnish proof coating, where it sets providing a life-long bond that will resist even high pressure water cleaning techniques. The adhesive has a working temperature range of minus 50°C to plus 127°C. EncaSeal is supplied in either 96 metre rolls, 1.25 metres wide, giving 120 square meters on a roll, or 50 metre rolls, 0.5 metres wide, giving 25 square metres on a roll, it is simply cut with scissors and once in position will not spring back. There is no need to fit retaining wire-mesh around the duct-work or have any other protection for the insulation.

Deflects infrared and UV energy

One of the functions of EncaSeal is to block the infrared and UV energy that would be otherwise absorbed by soft insulation. In time this energy will break down the surface of most foam insulation, shortening its life and increasing dust levels to unacceptable levels.

An excellent vapour barrier

With a low moisture transmission rate of 0.021 g/m² EncaSeal also act as an excellent vapour/dust barrier, halting moisture migration into the soft insulation layers and sealing-in dust particles, this feature being desirable where ducting is associated with "clean rooms". The system ensures existing and replaced foam or quilt insulation is sealed, kept dry and its performance maintained.

Suitable for ducts and pipe work in food preparation areas.

Microbial testing, according to the film contact method, has proven with proper cleaning regimes, *Escherichia coli*, *Campylobacter jejuni*, *Clostridium pefringens*, *Pseudomonas aeroginosa*, *Salmonella typhimurium*, cannot live on the membrane surface. EncaSeal does not offer any growth conditions for bacteria and moulds. (University of Gent LabMet Avecom MVW/TW/10-11-

12-2005/02-1)

Resistant to chemical attack, EncaSeal can be cleansed using an approved disinfectant without affecting its durability. The membrane act as a total water and air barrier and can take pressure cleaning up to 207 bar (3000 lbf/in² or psi) at a distance of 300 mm (12 inches).

EncaSeal has Warrington Fire Research certification to BS 476: part 6: 1989 and BS 476: Part 6: 1997, and is made in an ISO 9001:2000 facility



Apollo EncaSeal on insulated duct and pipe

Note to Editorial Teams

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