

# A brief overview of the Enviropeel APPLICATION UNIT

**ENVIROPEEL**  
THERMOPLASTIC SYSTEMS

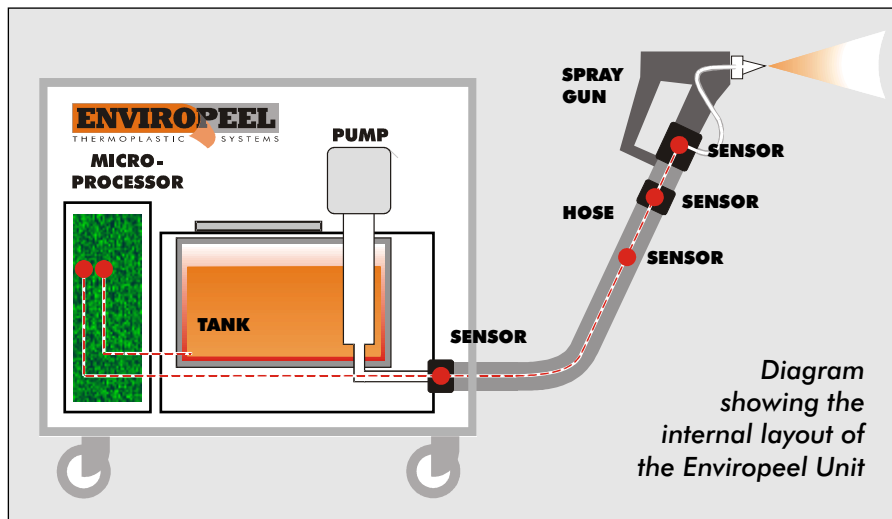


The applicator consists of a heating and pumping unit, a heated hose and spray gun, all housed in a purpose-built mobile trolley with a well-equipped tool drawer.

## USING THE EQUIPMENT

The Enviropeel material is supplied as chips which are loaded into the heating tank where they become a liquid at 170°C. The liquid material is pumped through the hose to the application head and sprayed on to the substrate. Immediately the Enviropeel material hits the substrate, it solidifies to form a resilient, corrosion-inhibiting

second skin. The entire system, from tank to spray gun, is heated using separately programmed computer-controlled heating zones for maximum flexibility. Engineered for reliability, each unit incorporates a number of safety features, with EX containment and gas detectors on machines designed for use in hazardous areas.



## ENVIROPEEL E170

The Enviropeel E170 material is a thermoplastic containing its own built-in corrosion inhibiting oil. Solid at normal temperatures, it is heated to form a liquid for application, after which it rapidly returns to its normal solid state - encapsulating the substrate within a perfectly fitting anti-corrosion barrier. It is supplied as chips to speed melting and make handling easier.

Enviropeel protection works in two ways. It encapsulates the substrate, isolating it from the corrosive environment, and, by actively releasing penetrating inhibitors throughout the life of the system, prevents corrosion taking place as well as arresting any corrosion that is already present.

*Below: A 10kg tub of E170 material and a scoop of chips*

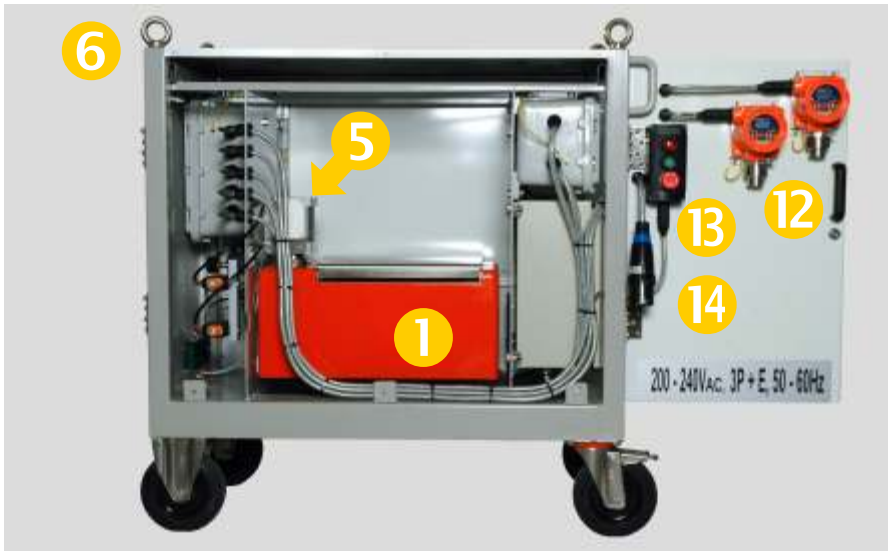


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**The system includes the following:**

- Heating tank with fill level, filters, temp sensor & limiter switch (1)
- Electrical box with earth leakage trip & breakers (2)
- Microprocessor & Control Panel (3)
- Gas Detector and Power Control Box (4)
- Air-powered hydraulic pump (5)
- DNV-certified lifting eyes (6)
- Hose connectors (7)\*
- Heated 10-metre hose (8)\*
- Application head with needle valve, trigger, plug, safety lock (9)
- Air System (10)\*

The air system includes high pressure regulator, low pressure regulator, high/ low pressure selection valve and Slugger 170 air regulator. These may all be mounted internally and/or can be supplied on a remote control air board.

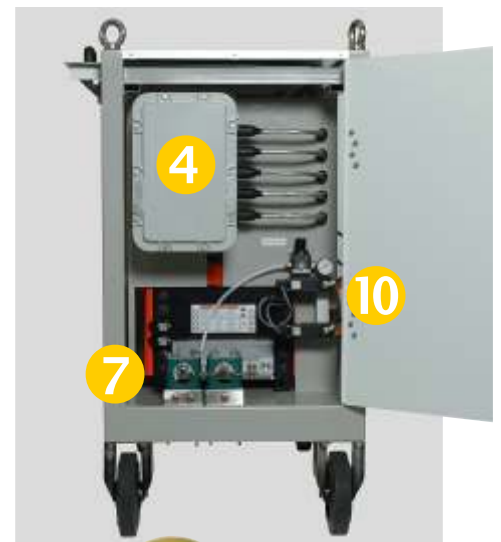
- Remote Air Board (11)
- Gas Detectors\* (12)
- Emergency Stop Station\* (13)
- EX power connection\* (14)

\* asterisk indicates type for which variants are available. Some EX and other features may not be included, depending on model type.

**Electrical System**

The standard unit is 3-phase, 380-440v, 20 amp, 5 pin, neutral and earth - other variants are available for different electrical supplies.

The illustrated model is a Zone 2 Unit for use on LPG carriers



**PPE and PPC**

All coveralls should have long sleeves for overall protection. It is also necessary to use heat and oil resistant gloves, full face visor, safety goggles and protective footwear. Where circumstances demand it, a face mask with inorganic cartridges and helmet should be worn.

**Surface Preparation**

The tools to use for substrate and surface preparation are wire brushes, scrapers and a soft brush. All loose material should be removed and debris and moisture should be cleaned off the surface. The soft brush is used to remove loosened material. The surface of the substrate must be dry and free from loose particles.