

# ENVIROMAT™

Foamix macadam technology providing a sustainable future



**Glendinning**  
QUARRY & CONCRETE PRODUCTS

## WHAT IS ENVIROMAT™?

Foamix was introduced in the 50's for use by the US Army to construct airfields in the Pacific. Enviromat™ (the Glendinning brand for Foamix) is a cold lay macadam containing 100% recycled aggregates and Beta can be stored for a period of up to 8 weeks prior to use. As a business we recognise the value in protecting our resources by maximising the use of recycled materials into the local market.

## HOW IT WORKS

The basic principle of Enviromat™, is to expand bitumen by contact with small amounts of water under carefully controlled conditions, then mix the foamed bitumen with cold moist aggregates.

### FEATURES

- Uses recycled materials such as asphalt road planings or crushed concrete
- **Contains 100% of recycled aggregates**
- Mixed material can be stockpiled or hauled to site and sheeted until needed
- The use of bitumen which is foamed by the introduction of water
- Computerised control ensures a consistent quality controlled material

### ADVANTAGES

- Provides a strategic step for local authorities in meeting Agenda 21 environmental objectives
- Highly valued road planings are recycled back into the road pavement infrastructure ensuring the best use of materials and minimising the environmental impact
- Less energy to produce the required product
- The plant is smokeless, odourless and quieter in operation
- **Lower cost per tonne due to the use of less bitumen and the use of 100% recycled materials**
- The materials are crushed and screened to fit a predetermined grading envelope, before being mixed with the bitumen
- Conventional paving equipment enables a quality pavement finish
- Beta can be produced and stockpiled for up to a period of 8 weeks conserving considerable operational and cost benefits
- No requirement for insulated body trucks



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## MIX DESIGN & APPLICATION

Enviromat™ provides a uniquely strong adhesive binder system that allows the use of a wide range of recycled aggregates. Subject to site conditions two different mix applications have been designed to cover:

MIX	TYPICAL USE / APPLICATION
Enviromat _ Alpha	Medium Use Plus: Highway construction to specification TRL611
Enviromat _ Beta	Medium Use: Estate Roads, Car Parking Areas, Footpaths (where vehicle parking may occur) Light Use: Cycle tracks.

Engineers from both Devon County Council materials laboratory and Glendinning has worked through a product development phase to maximise the use of recycled aggregates / planings to provide a quality pavement.

Enviromat™ offers the opportunity to reuse asphalt planings to produce a Base (Road Base) or Binder Course, which replaces conventional material. Developed and tested bespoke plant ensures consistently high quality materials.

## SUMMARY

- Conserves local primary aggregate sources
- Quality controlled process
- Cost effective option in terms of finance and the environment
- Enviromat contains 100% recycled construction materials
- Supporting the WRAP programme for a more sustainable resourcing of construction aggregates

Glendinning has invested in this technology and has the resources, technical and construction ability to further develop its use and are committed to reducing the environmental impact of our activity, whilst continuing to offer our clients a quality product and service.



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