



Sealing, Stabilising, Protecting Paving

# Datasheet

## RESIBLOCK ENVIROFIX

### Product Description

RESIBLOCK ENVIROFIX is a jointing aggregate stabiliser designed specifically for small element flexibly laid permeable paving systems. A polyurethane/acrylic hybrid water based low viscosity copolymer emulsion which is solvent free, in keeping with the environmentally sensitive ethos of permeable paving systems. Whitish in a liquid state it becomes clear when dry. It incorporates a completely unique hydrophilic bonding agent which allows the aggregate to be bonded, whilst allowing the joint to remain totally free draining. As a solvent free formulation it does not give off any unpleasant odours. RESIBLOCK ENVIROFIX is formulated for all forms of small element flexibly laid permeable paving systems including both concrete and clay.

### The System

#### Special Properties

Does not impede drainage through vertical channels and will allow water through the surface at a rate of approx. 18,750 litres/sec/hectare\*.

Ideal for use where rainwater needs to be returned to the ground to ease the burden on drainage systems, and thereby assisting in providing a water supply to trees and plants.

Allows implementation of SUDS (Sustainable Urban Drainage Systems).

\* Product tested Marshalls "Piora"

#### Fields of Application

In conjunction with Concrete or Clay Permeable Paving i.e.

PORTS AND TERMINALS  
AIRCRAFT HARD STANDINGS  
FOOTPATHS AND PEDESTRIAN PRECINCTS  
CAR PARKS AND RAMPS  
ROADS AND DRIVEWAYS

### Benefits

- Prevents jointing aggregate extraction by vacuum sweepers
- Greatly adds to the structural stability of the system
- Does not reduce design permeability of the pavement system
- Can be used on all concrete and clay systems

### Features

- Prevents aggregate removal by vacuum sweepers
- Single component requires no thinning or use of a reactive ingredient
- Environmentally friendly
- Solvent free – safe for use in playgrounds
- Polymerisation effected by moisture evaporation and absorption by surrounding substrate
- Manufactured under ISO 9002
- Micro-elastomeric
- Easy application by Resiblock Squeegee
- Withstands temperature in excess of 100° C
- High degree of resistance to both domestic and commercially available chemicals
- Unaffected by commercial de-icing salts
- Will not impede maintenance or reinstatement works
- Can be applied by non-technical personnel
- Aggregate stabilisation will facilitate:
  - a reduction in loading on existing sewerage systems
  - protection for urban watercourses from accidental spillages and pollution
  - ground water recharge where conditions permit

### General Technical Data

#### Coverage

1.0–2.5 m<sup>2</sup>/l depending on joint width and size/aggregate porosity

#### Cleaning of Tools

Water/detergent

#### Drying Times

12 hrs @ 20° C

#### Storage

Store under cover and protect from extremes of temperature

#### Flash Point

Not flammable

#### Container Sizes

25l kegs & 5l cans

#### Shelf Life

18 months (unopened containers)

#### Shipping Specification

Not regulated

## Application Information

1 Ensure the surface and jointing aggregate is reasonably dry and free from sand and fines.

2 Ensure that RESIBLOCK ENVIROFIX is only applied when there is no risk of rain within the next 24 hours.

3 Do not apply in extremes of temperature (below 5° C and above 30° C)

4 Ensure paving is thoroughly swept and that no jointing aggregate remains on the surface of the pavers.

### 5 Stir contents well

6 Apply to entire surface using a watering can (with the rose) and remove all surplus with the RESIBLOCK SQUEEGEE.

7 RESIBLOCK ENVIROFIX is usually only applied as a 1 coat system. However the joints should be checked (once dry) to ensure adequate bonding of the aggregate. Should the grit appear not to be fully bonded then a 2nd coat should be considered.

8 Surface can be immediately opened to foot traffic. Do not drive motor vehicles on the surface until joints are dry and bonded.

9 Always wear protective gloves and goggles. Please refer to current MSDS.

10 All uncured ENVIROFIX and tools should be cleaned immediately using water and detergent.

11 On clay paver systems it is critical to ensure that no excess sealer is left on the surface and a dry Resiblock Squeegee or Resi-roller should be used for this purpose.

## Structural Integrity Improved

As the jointing aggregate (typically 3-6mm) remains in place, preventing removal by even the most aggressive vacuum sweepers, it will greatly assist in helping designers meet Category 3+ loading status, thus largely removing the problems associated with stabilising permeable paving systems. RESIBLOCK ENVIROFIX was designed specifically to work in harmony with voided pavements so that the risk of flooding in watercourses can be significantly reduced, thereby preventing damage to river habitats.

### Skid Resistance

Surface Tested	Pendulum Test Result
Concrete pavers - unsealed	65
Concrete pavers - ENVIROFIX sealed	59

### Abrasion Resistance

Water/ cement ratio of concrete mix	Depth of abrasion (mm) C & CA Abrasion machine (5 minute cycle)		
	Control - No surface treatment*	2 coats 20% Sodium Silicate solution*	2 coats RESI-BLOCK
0.65	1.18	0.89	0.14
0.52	0.78	0.51	0.14
0.44	0.54	0.40	0.14

\*C & CA Abrasion Machines, ref. R G Chaplin. BCA April 1990 \*Test results from Sadegzede and Kettle, Aston University, Concrete, May 1987

## Health & Safety

PVC gloves and protective clothing/ goggles must be worn.

Do not apply RESIBLOCK ENVIROFIX in the presence of foodstuffs. Once fully cured RESIBLOCK ENVIROFIX can be considered innocuous.

## Physical Data

Colour	Milky
Odour	Faint/Soap
Viscosity at 20 °C (68	6.5 CPS
Specific gravity	Ca. 1.025 g/ml (liquids)
pH	7.5-8.00
Flash point	Non flammable
Boiling point	Ca. 100 °C
Freezing point	Ca. 0 °C (liquids)
Storage	5-30 °C
Shelf life (unopened container)	18 months

PLEASE NOTE this data sheet represents an abbreviation only of technical information, particularly as it relates to fields of use, application and health and safety. As such it is essential that the latest copy of our full technical data is consulted.

## Alternative Products

None

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