

# RESIBLOCK

Sealing, Stabilising, Protecting Paving

# Datasheet

## RESIBLOCK F.R.I.

### Product Description

RESIBLOCK F.R.I. is a urethane based low viscosity prepolymer jointing sand stabiliser and surface sealer, designed specifically for Black/White Chevron block paved roundabouts. Its penetration and bonding comes about through solvent evaporation, polymerisation being effected by atmospheric moisture. It incorporates a completely unique moisture curing system eliminating the problems common to water based and solvent acrylic coatings. Its main function is to bind the particles of sand together and to the vertical faces of the paver.

### The System

#### Special Properties

Maintains performance life of roundabout.  
Yields significant whole life cost savings and reduces interim maintenance.  
Safety issues permanently addressed.  
Contributes to 'Best Value'.  
Fuses seamlessly to all Interfaces.  
Virtually eliminates weed and grass growth in the joints.  
Ideal for use with pavers having:-  
Ballotini Beading  
Epoxy paints  
Chlorinated Rubber Paints

#### Fields of Application

ROUNABOUTS  
TRAFFIC ISLANDS  
PELICAN CROSSINGS  
KERBING  
CAR PARK DEMARCATION  
HIGH VISIBILITY PAVING  
DISABLED PRIMARY ROUTES

#### Limitations of Use

PIC, Engineering Bricks, Quarry Tiles and Marble

### Structural Integrity Maintained to Paving

Jointing sand remains in place under the most arduous conditions, including high velocity water flows (down gradient/embankment) as well as maintenance pressure washing. Renders joints totally bonded against the growth of weed and grass spores. Maintenance issues virtually eliminated.

### Features

- Single component - fast cure, ensures rapid re-use of the roundabout
- UV stable. Ensures non-yellowing of White pavers
- Penetration brought about by solvent evaporation
- Can be applied all year round (see application information).
- Suitable for all types of traffic islands and roundabouts
- Manufactured under ISO 9002
- Greatly exceeds ASTM D 2370 (elongation test) - fully elastomeric.
- Proven to withstand temperature in excess of 200° C
- High degree of resistance to commercial chemicals.
- Unaffected by commercial de-icing salts
- Pavers can still be easily removed

### General Technical Data

#### Coverage

1.8 m<sup>2</sup>/l (first coat), 3.0 m<sup>2</sup>/l (second coat) depending on joint width and paver porosity

#### Cleaning of Tools

RESICLEAN

#### Drying Times

2 hrs @ 20° C

#### Storage

Store under cover and protect from extremes of temperature. Being aliphatic based it is temperature sensitive, if stored at temperatures below 10°C, the polymer may tend to settle out of the solvent, as such ensure contents of container are thoroughly mixed.

#### Flash Point

45° C

#### Can Sizes

5l cans and 25l kegs

#### Shelf Life

12 months (unopened containers)

#### Shipping Specification

Packing Group III  
UN No. 1992 - Class 3.3

## Application Information

1 Make sure the surface and **jointing sand** are **THOROUGHLY DRY** and free from dirt.

2 Ensure that RESIBLOCK *F.R.I.* is only applied when there is no risk of rain within the next 8 hours.

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

4 Ensure paving is **thoroughly** swept and that no jointing sand remains in the chamfers of the pavers.

5 Apply horizontally to the surface using a RESIBLOCK APPLICATION ROLLER.

6 Accurate application rates are critical to ensure full joint stabilisation (typically 1.6m<sup>2</sup>/litre).

7 Wait until first coat is palm-print dry, then apply second coat vertically using a RESIBLOCK APPLICATION ROLLER.

8 Avoid walking on the sealed area for 3 hours after application and do not allow vehicular over-run for 48 hours.

9 ALWAYS WEAR PROTECTIVE GLOVES AND GOGGLES. NO SMOKING. WEAR A MASK WHEN WORKING CLOSE TO THE SURFACE. Please refer to current MSDS.

10 All uncured *F.R.I.* on tools should be cleaned immediately using RESICLEAN.

**SPECIAL NOTE.** These application guidelines refer to newly constructed roundabouts only. Special application procedures and special materials (including RESIBLOCK *F.R.I.* HV) are required for refurbishment projects. See full Method Statement

## Test Data (Typical Values)

### Infiltration

Test liquid	Infiltration rate ml/second	Maximum permitted infiltration rate ml/second*	Remarks
Unleaded petrol	<0.020	0.02	excellent
AVGAS	<0.020	0.02	excellent
Diesel fuel	<0.020	0.02	excellent
Water	0.022	0.05	excellent

\* Recommendations by University of New-castle work for British Aerospace Military Aircraft Ltd.

### Skid Resistance

Surface Tested	Pendulum Test Result
Concrete pavers	65
Ballotini beaded pavers	72

### 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 RESIBLOCK <i>F.R.I.</i>
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

	Tensile Strength (mPa)	Elongation (%)
ASTM	7.1	407

## Health & Safety

PVC gloves and protective clothing/face shield must be worn, plus use of a barrier cream on exposed areas of skin, as uncured RESIBLOCK *F.R.I.* may be considered a hazardous material.

No smoking or naked flames to be allowed, as RESIBLOCK *F.R.I.* is FLAMMABLE. Ensure area to be treated is well ventilated. If public access is allowed, erect NO SMOKING signs and site fire extinguishers

A mask of the recommended type is **essential** when using a paintbrush, working close to the surface or internally. Sabre or Martindale is recommended.

Do not apply RESIBLOCK *F.R.I.* in the presence of foodstuffs. Once fully cured RESIBLOCK *F.R.I.* can be considered innocuous. Do not clean hands with RESICLEAN as solvents may de-fat skin leading to dermatological problems.

Do not return unused material to original containers. DO NOT RESEAL or store partly used kegs. Material so stored may have poor adhesion, Carbon Dioxide may generate and put the drum under pressure, which might rupture the drum. Furthermore partial or total solidification of the sealant may occur.

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.

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