

# BONDING & PROTECTION RESIN

# 531

## BREPOXY

### ADHERENCE TO CONCRETE AND BITUMINOUS COATINGS

### S E A L I N G



## PRODUCT FEATURES

- Adherence to concrete, bituminous coatings and sand-coated sheet metal.
- Resistance to acids and diluted substances
- Waterproof
- Application to dry or slightly damp substrates

### DESCRIPTION

BREPOXY 531 is a solvent-free epoxy resin. Polymerization by resin-hardener reaction.

### USES

- Waterproof coating for concrete base mats, basins, retention tanks etc.
- Anti chemical corrosion coatings for manure pits and waste water pipes.
- Bonding of kerbstones, traffic islands, paving stones and flagstones (natural stone or concrete) to bituminous coatings

### SPECIFICATIONS

- Mixture colour : grey
- Resin : translucent
- Hardener : grey
- Time between coats : 12 – 24 hours
- Resin : Hardener ratio 1:1 by weight or volume
- Mixture density : 1.2
- Dry content : 100%
- Post-polymerization temperature resistance range : -30°C to +60°C
- Pot life : 40' at 20°C
- Volume resistivity : 6.3. 10<sup>9</sup> Ω.cm

### Bonding strength (MPa) at 28 days\*

Substrate	Concrete
Value	> 3

- \* average laboratory values provided as a general guide.

### Mechanical strength (MPa) at 28 days\*

Compression	100
Bending	35

\* Tests carried out on 4 x 4 x 16 samples, kept at 23°C and 50% humidity. Average laboratory values provided as a general guide

### Return to Service \*

Temperature	20°C	10°C	5°C
Time	24h	48h	96h

\* average laboratory value provided as a general guide

### INSTRUCTIONS

#### Substrate preparation

- The substrate must be clean, sound and resistant.

#### Product preparation

- Machine-mix the two pre-measured components, i.e. resin and hardener, on slow speed (200 – 300 rpm) for 3 – 5 minutes.

#### Application

- Coating : apply two coats by brush or roller. Allow 12 – 24 hours between coats.
- An anti-slip surface can be made by including G2-type silica in the 1st coat.
- Kerb bonding : fix each block separately.
- To obtain a smooth finish on mortar and micro-concrete made with **723 LANKOPOXY** resin, **725 LONKODILPOX** must be used

### Mortars and slurries

- One 5kg kit of **531 BREPOXY** + 5 volumes of G2 sand produces a workable volume of 16 litres
- Add 2 to 5 parts G2 silica to 1 litre of **531 BREPOXY**, according to the consistency required, i.e. 2.2 – 4.6 litres of mixture. (NB – resin density : 1.2 - siliceous sand : 1.5).
- Micro-concrete: add 2 - 5 volumes of 4-8mm aggregates\* for 1 litre of **531 BREPOXY**.
- Thixotropy: by addition of cement (as mineral charger), talc, clay, bentonite, fibres (carry out a suitability test in advance).
- If used in shaft linings, insert **ARMATURE RM** between 2 coats of **531 BREPOXY**.

\*aggregates used for making micro-concrete must be non-frostriven (frost index ≤ 10)

### PRECAUTIONS

- Temperature range for use = 5°C - 35°C
- Use in a well-ventilated area.
- Avoid prolonged skin contact : gloves and eye protection should be worn.
- Clean tools with **725 LANKODILPOX**.
- In temperatures above 20°C, pour **531 BREPOXY** into a larger recipient in order to prevent exothermic reaction.
- Product sensitive to UV rays: change of colour when used externally.
- Refer to the safety data sheet.

# BONDING & PROTECTION RESIN

# 531

## ADHERENCE TO CONCRETE AND BITUMINOUS COATINGS

### BREPOXY

# S E A L I N G

### CHEMICAL RESISTANCE TABLE

#### CONSUMPTION

500g/m<sup>2</sup> approx per coat depending on the state of the substrate

#### PACKAGING

- 5 kg kit

#### CONSERVATION

2 years from date of manufacture if stored in unopened original packing in dry, temperature-controlled, frost-free conditions

#### WARRANTY

Manufacturer's liability

#### CONDITIONS :

Immersion in products listed for 30 days at 20°C.

- R = resistant  
C = change of colour but still resistant  
NR = non-resistant

RESISTANCE		1 day	7 days	30 days
Acetic acid	5% & 10%	R	C	C
Hydrochloric acid	10% & 30%	R	R	R
Citric acid	10%	R	R	C
Saturated hydrocarbon		R	R	C
Lactic acid	10%	R	R	NR
Nitric acid	10%	R	C	C
Phosphoric acid	10% & 30%	R	R	C
Sulphuric acid	10% & 30%	C	C	C
Formic acid	10%	R	R	NR
Sodium carbonate	10%	R	R	R
Ammonia	10%	R	R	R
95° alcohol		R	R	R
Distilled water		R	R	R
Bleach	10%	R	R	R
Petrol		R	R	R
Gas oil		R	R	R
Chlorobenzine		R	NR	NR
Xylene		R	R	R
Isobutyl alcohol		R	R	R
Oil		R	R	R
Milk		R	R	R
Lockheed		R	R	R
Methylethylcetone*		NR	NR	NR
Butanol		NR	NR	NR
Beer		R	R	R
Cola		R	R	R
Tomato juice		R	R	R
Perchlorethylene		NR	NR	NR
Sugar solution	30%	R	R	R
Sodium hydroxide	10% & 20%	R	R	R
Trichlorethylene		NR	NR	NR
Wine		R	R	C
Vinegar		R	R	C

\*and all acetone-derivative chemical compounds

- Product resistant to mineral acids up to pH3

The information provided in this document results from our knowledge of the products and our experience. On-site results may vary, in particular according to the product application methods adopted. Where application methods not covered by this document are used, customers must request specific additional information and/or carry out a representative test before using the products. The above-mentioned information in no way constitutes a warranty relative to the use of the products. Our general terms and conditions of sale shall prevail, in any event, on the information provided in this document. Prior to application, customers and users are requested to check that they have the latest version of this document.

PAREXLANKO S.A. / Département Mortiers Spéciaux – 19 Place de la Résistance? 92446 Issy Les Moulineaux Cedex  
Tel: 33 (0)1 41 17 45 45 – Fax: 33 (0)1 41 17 19 55

## PAREXLANKO