BUILDING TRUST

PRODUCT DATA SHEET

# Parex Epoxy Putty LS

Parex Epoxy Putty LS is an epoxy resin based, filled adhesive

## DESCRIPTION

Parex Epoxy Putty LS is an epoxy resin based, filled adhesive. The three-component product consists of a base resin, hardener and bag of specially graded fillers.
The resultant thixotropic product can be applied horizontally, vertically and overhead (with care). The product is easy to place using hand tools which include notched trowels, floats and even by extrusion from a cartridge.
The adhesive will give structural support of the highest degree and will act as a high strength support for arises, cladding, steel and precast concrete elements.
Cured Parex Epoxy Putty LS is resistant to a wide range of chemicals including petroleum products and chloride ions. Parex Epoxy Putty LS is freeze/thaw stable.
The natural colour is light grey (near RAL 7030).

## USES

Parex Epoxy Putty LS may only be used by experienced professionals.

- Bedding applications to support precast concrete units, lift shafts, steel stanchions, machines, wooden blocks and baulks, anti-vibration units.
- Bedding steel plates on bridge soffits and decks.
- Fixing of chemical resistant tiles in aggressive environments.
- Adhering brickslips.
- Bonding granite, marble and stone cladding.
- Securing of dollies for test purposes.
- Uprating corroded bridge steelwork by the adhesion and bolting technique.
- Bedding of rails on plates for mobile storage applications (e.g. libraries and document storage).

## FEATURES

- Easy to use.
- Can be placed with hand tools.
- Can be applied to a feather edge.
- Very high mechanical properties.
- Resistant to a wide range of chemicals, including petroleum products.
- Stable to freeze/thaw activity.
- Can achieve a smooth, aesthetically pleasing finish.
- Concrete grey in colour.
- Suitable for dynamic loading.
- Bonds to a wide range of construction materials.
- Originally designed for bedding and support applications in lift shafts.
- Ideal for bonding brickslips and stone cladding.
- Can be used for numerous bedding applications, including rails on plates (e.g. document storage).
- Excellent for bonding test dollies.

## CERTIFICATES AND TEST REPORTS

Parex Epoxy Putty LS has been tested in accordance with the relevant parts of BS 6319 and EN 1542.

## PRODUCT INFORMATION

| | |
|---|---|
| **Packaging** | 10.671 kg packs |
| **Shelf life** | 12 months |
| **Storage conditions** | Store in unopened containers and in dry conditions at a temperature between 5°C and 45°C.<br>Storage at higher temperatures or humidity may reduce shelf life. |
| **Density** | 1850 kg/m³ |

## TECHNICAL INFORMATION

**Compressive strength**

| 1 Day | 3 Days | 7 Days |
|---|---|---|
| ~73N/mm² | ~80N/mm² | ~85N/mm² |

N.B. Typical properties at 20°C.

**Flexural-strength** ~21.0 N/mm²

**Tensile strength** ~13.2 N/mm²

**Tensile adhesion strength** (EN 1542)

| Substrate | Age | Result |
|---|---|---|
| Concrete | 7 Days | 3.8 N/mm²* |
| GRP | 7 Days | 2.3 N/mm²* |

* = Failure of substrate surfaces, not the adhesive.

**Reaction to fire** Parex Epoxy Putty LS is classified as non-flammable when mixed and cured. Should fire occur, extinguish with $CO_2$ or foam.

## APPLICATION INFORMATION

| | |
|---|---|
| **Yield** | Approximately 5.2 litres of mixed material |
| **Layer thickness** | Minimum: Feather edge.<br>Maximum: 25mm. |
| **Pot Life** | ~65 minutes |

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

Parex Epoxy Putty LS will not harden at temperatures less than 5°C.
Application thicknesses range from feather edge to a nominal 25mm.
For tile and stone cladding applications use notched trowel with maximum 6mm tooth width.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Remove laitance and all loose material including dust, oil, and grease to achieve a sound substrate.
Concrete surfaces should be mechanically abraded to produce a mechanical key for critical situations.
Lift shaft surfaces with physical corner location points should refer to engineer's instructions.
It may be necessary to infill significant holes in substrates, and a suitable epoxy mortar (e.g. Sikadur-41+).
Steel surfaces should be free of mill scale and rust. For 'plate bonding' refer to standard preparation details.
Badly corroded steel should be cleaned back to bright metal (at least Sa 2).

**Priming**
For the majority of work, no priming is necessary. For particularly difficult substrates (e.g. porous concrete) contact Sika® Technical Services.

### MIXING

**All components must be used to complete the mix as the ratio of base to hardener is critical.**

Pour all the resin into the provided mixing bucket or clean mixing vessel.
In cold conditions (i.e. less than 10°C), the base becomes highly viscous ('thick').
The hardener may be added to the depleted base bottle and used to ‘wash out’ the remnants of the bottle.
This may be achieved by replacing the bottle top and shaking the contents for 20 seconds - add this to the base.
Mix with a slow speed (300 to 400 RPM), high torque electric drill with a mortar stirrer until homogenous.
Add the filler slowly whilst continuously mixing. After all the filler has been added, mix for a further minute until an even colour and powder distribution has been achieved.

### APPLICATION

Depending on the application, the mixed material can be placed onto the prepared surface using a notched trowel, float or suitable hand tool.
Ensure that the applied material is worked well into edges and irregularities.
The cleaning off of exuded material can be carried out when the Parex Epoxy Putty LS has just started to set, or mechanically once the material has cured.
Protection of aesthetic edges and details should be undertaken prior to application.
Product to be placed by hand gun can be mixed and carefully placed in a disposable one litre cardboard cartridge and injected.

### CLEANING OF EQUIPMENT

Clean all tools and application equipment using the Sika® Thinner C in accordance with the Product Data Sheet. Hardened material can only be mechanically removed.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## LEGAL NOTES



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