EPOXY PUTTY LS

TECHNICAL DATA

PAREX
A SIKA COMPANY

Product Code

TP 131 Packaging listed overleaf.

Description

Epoxy Putty LS is an epoxy resin based, filled adhesive. The three component product, based on Epoxy Putty, 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 out of 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 Epoxy Putty LS is resistant to a wide range of chemicals including petroleum products and chloride ions. Epoxy Putty LS is freeze/thaw stable.

The natural colour is light grey (near RAL 7030). Suitable mineral pigments may be added to adjust for architectural purposes. (Speak to our Technical Services Dept).

Uses include:

- 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. Use in conjunction with Tecgrip Resin Anchor Materials – Plate Bonding.
- Fixing of chemical resistant tiles in aggressive environments.
- Fixing of granite marble and stone cladding.
- Fixing of dollies for test purposes.
- Uprating corroded bridge steelwork by the **adhesion and bolting technique.**
- Bedding of rails on plates for mobile storage applications, eg libraries and document storage.

Specification Outline

Adhesive support and bedding shall be carried out using Epoxy Putty LS as manufactured by Parex Ltd. The product must be stored, handled and placed strictly in accordance with the manufacturer's instructions.

Typical Physical Properties @ 20°C

Compressive Strengths

1 Day	3 Days	7 Days
73N/mm^2	80N/mm^2	85N/mm^2

Tensile Strength: 13.2N/mm^2
Flexural Strength: 21.0N/mm^2
Density: 1850kg/m^3
Usable Life: 65mins

Direct Tensile Placed on concrete 3.8N/mm^2*@7D
Direct tensile Placed on GRP 2.3N/mm^2*@7D
**Failure of substrate surfaces.*
Water Absorption 0.17%

Standards

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

Quality Assurance

Parex Limited has an integrated business management system. This is externally accredited by UK CARES to BS EN ISO 9001:2015, BS EN ISO 14001:2015, BS ISO 45001:2018 and BES 6001.

Instructions For Use

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 we refer you to Epoxy Mortar E or EFG. 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.

Priming

For the majority of work no priming is necessary. For particularly difficult substrates eg porous concrete contact the Technical Services Dept.

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Instructions For Use

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, less than 10°C, the base becomes 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, high torque electric drill c/w 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.

Placing

Depending on the application, place the mixed material 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 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.

Curing

No special curing practice is required.

Cleaning

Solvent should be used to clean tools and mixing equipment before setting of the Epoxy Putty LS. Removal of set material will be difficult and will require mechanical methods. Solvent plus clean dry gravel can be an effective stirrer cleanser.

Limitations

Epoxy Putty LS will not set at temperatures less than 5°C. Refer to the standard Parex 'Low Temperature Use Notes' for situations below 5°C.

Application thicknesses range from feather edge to a nominal 3mm. For tile and stone cladding applications use notched trowel with maximum 6mm tooth width.

Precautions

Health and Safety

Epoxy Putty LS is a resin based product. Resins and solvents may cause allergic reactions in some people. Use barrier cream on exposed skin and wear gloves and eye protection when mixing, using and cleaning. Ensure adequate ventilation to prevent inhalation of vapours. If skin contact occurs remove resin immediately with cleansing cream and wash with soap and water. Do not use solvent. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical advice immediately.
Full health and safety data are give in the product Health and Safety data sheet.

Fire

Epoxy putty LS is classified as non flammable.
Solvent is flammable.
Should fire occur extinguish with CO_2 or foam.

Storage And Shelf Life

Epoxy putty LS will have a storage life of 12 months in unopened containers when kept in dry conditions at a temperature between 5oC and 45oC. Storage at higher temperatures or humidity may reduce shelf life.

Yield

Epoxy Putty LS is packed in 10kg packs. Yield is approx 5.2 litres of mixed material.

Packaging And Ordering

Epoxy Putty LS is supplied in:

10 kg packs	Product Code TP131
Solvent is supplied in:	
5 litre cans	Product Code TM02
1litre cans	Product Code TM08
Tecgrip Cartridge	Product Code TGR07
Tecgrip Gun	Product Code TGR06

For further information and sales, please contact your local Parex office as listed below.

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