

## Estorex Putty

### High Strength Epoxy Putty for Civil Engineering Works

#### Description

**Estorex Putty** is two parts epoxy putty, based on a combination of resin and curing compound. It is a polyamide cured epoxy system, which sets even under water.

**Estorex Putty has been tested by SIRIM BHD in accordance to BS 6319, on Compressive Strength Test, BS 5350 Part C15:1990, on Determination of Bond Strength in Compressive Shear, Pull-Out Test, and complied with the specification in this data sheet.**

#### Uses

**Estorex Putty** is general-purpose epoxy putty for the following applications: -

- Bonding of pre-cast concrete
- Grouting of starter bar
- Crack sealing
- Concrete and overhead repair
- Bolt anchoring

#### Advantages

- Cure under water
- Will bond to damp surface
- Rapid setting
- Grey in colour, similar to concrete

#### Standards Compliance

- **BS 6319**
- **BS 5075**
- **BS 5350 Part C15:1990**

#### Physical Properties

Density (kg/litre)	1.7 – 1.8	
Colour	Concrete grey	
Pot Life at 25°C, 100g at 10mm thick	35 mins	
Service Temperature, BS 5075	100°C max	
Compressive Strength (N/mm <sup>2</sup> ) BS 6319	30°C	25°C
	2 hrs	10 -
	4 hrs	30 20
	8 hrs	60 50
	24 hrs	75 60
7 days	90 80	
Flexural strength (N/mm <sup>2</sup> ), BS 6319		
7 days	25	
Shrinkage When Curing	Negligible	
Toxicity	Non-toxic	
Adhesion	Concrete	Excellent
	Steel	Good

#### Application Instructions

##### Surface preparation

Substrate shall be thoroughly clean and free from oil, grease, etc. Loose particles shall be removed, as well as standing water.

##### Mixing

Thoroughly mix all resin and curing compound with a spatula until a uniform mixture is achieved. Part pack mixing is possible with right ratio.

**ESTOREX PUTTY SHALL NOT BE ADDED WITH WATER.**

##### Application

Apply the mixed product using suitable spatulas or trowels.

For **Grouting of Starter Bar** and **Bolt Anchoring**, fill the drilled hole with Estorex Putty prior to insertion of starter bar or bolt as required. Estorex Putty is suitable to grout and anchor starter bar or bolt on horizontal floor and vertical wall position.

For overhead anchoring, care should be taken to hold the starter bar or bolt in position before Estorex Putty has cured and sufficient strength has been achieved.

For **Under Water Application**, mix the product on dry surface and protect it from water when transferring to point of application.

For application as a **Bonding Adhesive**, use notched trowel to spread the compound.

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## Cleaning

Tools, etc can be clean while the mortars are still un-cure with solvent cleaner. Remove Harden material can only mechanically.

## Packing & Size

<b>Estorex Putty</b>	2 litre pack
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## Coverage

<b>Estorex Putty</b>	2 litre pack will fill an area of 2m <sup>2</sup> at 1mm thick
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## Technical Support

Denka offers a comprehensive range of high performance, high quality of repair product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifies, end-users and contractors, as well as on-site technical assistance.

## Storage

**Estorex Putty** should be stored on pallets in cool and dry conditions. Under these conditions, the product will have a shelf life of 12 months.

If stored in extreme heat locations the shelf life may be reduced.

## Precaution

**Estorex Putty** contains epoxy resins, which may cause skin sensitization in certain individuals. Skin contact should be avoided and a suitable barrier cream shall be applied or disposable rubber or plastic gloves shall be worn.

## Additional Information

**Denka Construction Solutions Malaysia Sdn Bhd** offers a wide range of complementary products, which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.



**Denka Construction Solutions Malaysia Sdn Bhd**  
(591858-U)

No. 18, Jalan Utas 15/7, Seksyen 15,  
40200 Shah Alam, Selangor Darul Ehsan, Malaysia  
Tel: +603 5510 8810 Fax: +603 5518 8202

[www.denka-cs.com](http://www.denka-cs.com)

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