

## Estocrete WR

### High Strength Solvent Free Epoxy Resin Patching Mortar

#### Description

**Estocrete WR** is a two-parts epoxy resin mortar, which is cured chemically. It has excellent compressive strength, which cured with negligible shrinkage and applicable in damp and underwater condition.

**Estocrete WR** has good chemical resistant.

60 to 70% of final compressive strength will be achieved after about 48 hours curing at 30°C.

**Estocrete WR has been tested in accordance to BS 6319: Part 2 on Compressive Strength Test, BS 6319: Part 3 on Flexural Strength Test, BS 6319: Part 7 on Tensile Strength Test, ASTM D4541 on Tensile Adhesion Strength Test and complied with the specification in this data sheet.**

#### Uses

**Estocrete WR** is specially designed for the following uses: -

- Patching of spalled or honeycombed concrete
- Protection to exposed reinforcement
- Repair to pre-cast concrete unit
- Repair of underwater / submerged steelwork or concrete
- Fixing of slip bricks, tiles and chemical resistant tiles

#### Advantages

- High tensile and compressive strength
- Rapid hardening with no shrinkage
- Excellent chemical and abrasion resistant
- Non-corrosive
- High impact resistant
- Applicable on exceptionally wet condition and underwater applications

#### Standards Compliance

- **BS 6319: Part 2**
- **BS 6319: Part 3**
- **BS 6319: Part 7**
- **ASTM D4541**

#### Physical Properties

Component	Two
Setting Time at 30°C	≤ 60 mins
Colour	Grey
Pot Life at 30°C, 500g	30 mins
Curing Time at 30°C Initial cure Final cure	24 hrs. 7 days
Compressive Strength, N/mm <sup>2</sup> at 30°C, BS 6319: Part 2 1 day 7 days	> 55 > 65
Flexural Strength at 30°C, N/mm <sup>2</sup> BS 6319: Part 3 7 days	> 12
Tensile strength at 30°C, N/mm <sup>2</sup> BS 6319: Part 7 7 days	> 15
Tensile Adhesion Strength, N/mm <sup>2</sup> ASTM D4541	> 1.0 Concrete failure

#### Application Instructions

##### Surface Preparation

Substrate shall be thoroughly clean. It must be free from oil, grease dust and surface contaminants.

Degrease steel work if necessary.

Surface to be fixed with tiles or bricks shall be mechanical abraded and cleaned with clean water.

##### Priming

Under normal circumstances, no primer is required.

##### Mixing

Mix all of Part A and Part B in a mixing pail with a low-speed drill and mixing paddle. The mixing shall be at least 5 minutes until a consistence homogeneous mortar is achieved.

WATER SHALL NOT BE ADDED.

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## Application

On overhead and vertical situations, **Estocrete WR** shall be applied between 3mm – 15mm thick in one application.

A damp or heated trowel shall be used to obtain smooth surface.

For underwater application, the mixed **Estocrete WR** shall be carried in plastic bag to work area and shall only be contacted with water until the point of application. A small quantity shall be pressed firmly into position to ensure all water is being expelled from the substrate. It shall be protected from scouring and running water until it is cured.

## Cleaning

Tools, etc can be cleaned while the mortars are still uncured with water or detergent solution. Cured mortar can be removed with wire brush after heated with a gas torch.

## Packing & Size

<b>Estocrete WR</b>	6 litre pack
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## Coverage

<b>Estocrete WR</b>	1m <sup>2</sup> / 6mm thick / 6 litre pack
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## Technical Support

Denka offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

## Storage

**Estocrete WR** should be stored on pallets in 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

**Estocrete WR** contains epoxy resin, which may cause skin sensitivity in certain individual.

Avoid skin contact. Wear suitable gloves and apply cream barrier.

## 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.



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