

## MAXRITE-500

Product Information Page

Maxrite 500 is a quick-setting, polymer-modified, fibre reinforced repair mortar with corrosion inhibitors. It is specially designed for high performance structural repairs.

Meets Class R4 according to European Standard EN - 1504-3.

### Specification Tip for Design Professionals:

Maxrite 500 may be specified by name or by using the following description: *a propriety quick-setting, polymer modified, fibre-reinforced structural repair mortar with corrosion inhibitors.*

### How does Maxrite 500 work:

A chemical reaction occurs when Maxrite 500 is mixed with clean potable water which produces a structural repair mortar, which has high flexural and compressive strength.

### How do I prepare the surface before applying Maxrite 500:

The repair area must be sound, clean, and free from all contaminants. Square-cut the edges of the repair area using a sharp tool and using a non-aggressive means remove all damaged concrete to a depth of at least 5mm.

### Mixing:

The total mixing liquid requirement for Maxrite 500, is between 3.5 and 4litres of clean potable water per 25kg unit of Maxrite 500

Slurry Coat: Use part of the mixing liquid and add 5 parts Maxrite 500 and mix into a creamy slurry.

Mortar: Mix between 3.5 litres and 4litres of clean potable water with a 25kg unit on Maxrite 500. Mixing of materials should be by mechanical means (slow-speed drill).



### Application Fields:

- ✓ Structural repairs to concrete affected by corrosion of reinforcement
- ✓ Structural repairs in marine environments
- ✓ Repairs to pre-fabricated concrete
- ✓ Repairs to concrete affected by repeated loads
- ✓ Repairs to concrete damaged by de-icing salts, freeze thaw or mechanical impacts

### Benefits:

- ✓ Fast setting material
- ✓ High mechanical strength and wear resistance
- ✓ Can be placed in layers of between 5-50mm
- ✓ May be placed to falls
- ✓ Excellent adhesion to concrete

**SURFASOLOGY**

E: [info@surfalogy.com](mailto:info@surfalogy.com)

T: 01 832 1005

W: [surfalogy.ie](http://surfalogy.ie)



### How do I apply Maxrite 500:

**Slurry Coat:** Apply to the prepared area using a Maxbrush.

**Mortar:** Maxrite 500 should be placed whilst the slurry coat is still tacky. Using a gloved hand or a trowel press the mortar into place in layers of between 5mm and 50mm and shape to the required finish. Maxrite 500 should not be applied if temperatures are 5°C or below or are expected to fall below 5°C in the following 24 hours.

### Storage:

Maxrite 500 should be stored in cool dry conditions and protected from frost.

### Curing:

Maxrite 500 should be mist cured with clean potable water.

| TECHNICAL DATA:  |  |
|--|--|
| Appearance   | Grey coloured powder   |
| Application Temperature  | >5°C   |
| Adhesion to Concrete   | ≥ 2.0N/mm <sup>2</sup>   |
| Requirement for repair products EN 1504-5 (Class)                | R4 / Structural  |
| Compressive Strength   | >45N/mm <sup>2</sup> after 28 days   |
| Density for cured and dry mortar EN 1015-10 (g/cm <sup>3</sup> ) | 2.15 ± 0.1   |
| Open time  | 10 minutes depending on temperatures   |
| Setting time at 20°C   | Beginning 10 minutes<br>End 25 minutes   |
| Dynamic modulus of elasticity (MPa)                              | 27.000   |
| Resistance to freeze /thaw                                       | 51 cycles scaling (kg/m <sup>2</sup> ) 0.1 Very Good   |
| Health & Safety  | Contains cements and quart-sand.<br>Protect eyes and prevent prolonged contact with skin.<br>Keep out of reach of children<br>For further information please consult the product MSDS. |
| Thickness per layer (mm)   | 5 – 50   |
| Consumption (kg/m <sup>2</sup> /mm)                              | 1.83   |
| Shelf Life   | 12 months from manufacture date  |

**CE Marking:** Maxrite 500 Meets Class R4 according to European Standard EN -1504-3.

**Disclaimer:** The general information provided in the present technical description, application guidelines and other recommendations, is based on research and experience. However, the client is obliged to determine themselves what products are suitable for use. Accordingly, no liability will be accepted by IBC Limited t/a SURFASOLOGY™. For further information contact the SURFASOLOGY™ Technical Department.

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**E: info@surfalogy.com**

**T: 01 832 1005**

**W: surfalogy.ie**





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## SURFASOLOGY

Unit 143, Grange Drive,  
Baldoyle Industrial Estate,  
Dublin 13, D13 W9V2,  
Ireland

**E:** [info@surfalogy.com](mailto:info@surfalogy.com)

**T:** 01 832 1005

**W:** [surfalogy.ie](http://surfalogy.ie)

