

# OXISEAL 502

**Penetrating hydrophobic treatment for concrete and masonry**

### Description

Oxiseal 502 is solvent based single component penetrating system which penetrates into porous substrates and then reacts to produce a bonded hydrophobic lining to the pores. Although allowing passage of water vapour from the substrate it significantly reduces the absorption of water and water borne salts. Oxiseal 502 does not discolour most substrates and has excellent resistance to weathering.

### Advantages

- Penetrates into substrates
- Non staining
- Reduces water and chloride intrusion
- Increases freeze thaw resistance
- Minimises efflorescence
- Allows water vapour to escape from the structure
- Chemically resistant to ice melting compounds, fuels, oils and atmospheric contaminants

### Uses

To protect atmospherically exposed reinforced concrete structures from attack by chloride ions and water intrusion. The product is also suitable to protect other cementitious substrates and masonry. Oxiseal 502 is suitable for use on all types of structures, including those in coastal environments. It is equally suitable for new and existing structures.

### Design criteria

Oxiseal 502 should be applied in two coats (wet on wet). To achieve the correct penetration and protection Oxiseal 502 must be applied on the substrate at the coverage rates recommended.

### Specification

Oxiseal 502 has a very low penetration of chloride ion and a reduction in water absorption

of not less than 85% when tested to the ASTM C642.

### Typical properties

The value obtained are for the Oxiseal 502 applied at the minimum recommended application rate.

Reduction in chloride penetration : 90%
ASTM C1202

Reduction in water absorption : 85%
ASTM C642

### Application instruction

#### Preparation

All surfaces should be dry and free from contamination such as Oil, grease, loose particles, decayed matter, moss, algal growth, laitance and all traces of mould release oils and curing compounds. This is best achieved by lightly sand-blasting the surface. Where moss, algae or similar growths have occurred, treatment with a proprietary biocide should be carried out after the sand-blasting process.

#### Application

DO NOT THIN. In order to obtain the penetrating properties of Oxiseal 502, it is important that the correct rates of application and over coating times are observed.

Number of Coats : 2
Theoretical application rate per coat : 5 m <sup>2</sup> /L
Re-coating time : Wet on wet

Oxiseal 502 should be applied in two flood coats until the recommended total application rate of 0.4 litre per square metre has been achieved. This is best accomplished by using portable spray equipment of the knapsack-type. If in doubt about the condition of the substrate, Al Majara office should be consulted. A site trial is recommended in all cases.

Oxiseal 502 should be allowed to dry for a minimum of 2 hours.

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## OXISEAL 502

### Cleaning

Oxiseal 502 should be removed from tools and equipment using Oxisolvent 100 immediately after use.

### Limitations

- Oxiseal 502 may darken some polymer modified substrates and white cement. A trial area is recommended. A site trial is recommended in all cases.
- Oxiseal 502 should not be permitted to come in contact with glass.

### Estimating

#### Supply

Oxiseal 502	:	20 and 200L containers
Oxisolvent 100	:	5 L cans

#### Coverage and yield

Oxiseal 502	:	5m <sup>2</sup> /L/coat (two coats recommended in wet to wet form)
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**Note:** For substrate with low permeability the coverage rate per coat will be reduced. Site trials are recommended to ascertain maximum coverage rate applicable to the substrate in question.

### Storage

When stored in the Original unopened container in cool, dry conditions away from sources of heat and naked flames, Oxiseal 502 will have a shelf life of 12 months.

If stored at high temperatures and/or high humidity conditions the shelf life will be reduced.

### Health and safety

Oxiseal 502 and Oxisolvent 100 should not come in contact with skin and eyes or be swallowed. Avoid inhalation of vapour/spray. Use only in well ventilated areas. In case of insufficient ventilation, wear suitable respiratory protection. Wear suitable protective clothing, gloves and eye/face protection. Barrier creams provide additional skin protection.

### Fire

Oxiseal 502 and Oxisolvent 100 are flammable. Do not expose to naked flames or other sources of ignition. No smoking. Containers should be tightly sealed when not in use. In the event of fire, extinguish with CO<sub>2</sub> or foam.

### Flash point

Oxiseal 502	:	38°C
Oxisolvent 100	:	33°C

### Information

Al Majara Polychem Ind. LLC products are guaranteed against defective materials and are sold subject to standard terms and condition of sale, copies of which are available on request which are reasonable care it's taken compiling this technical data sheet, all recommendations regarding the use of product are made without guarantee since the conditions used are beyond the company' direct control. It is the customer responsibility to satisfy themselves that each product is fit for the purpose for which they indent to use it.

### Quality Matters

All products originating from Al Majara Polychem Ind. LLC are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9000, ISO 14001 and OHSAS 18001.

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