

High-performance, silane-based  
water repellent

# weber.tec aquapel WR

## aquapel WR water repellent



### Uses

#### For treatment of:

- Porous concrete, masonry and sand/cement rendered surfaces
- Buildings and structures in exposed locations
- Protection of bridges and other structures from salt spray

### About this product

**weber.tec aquapel WR** is a solvent-based, hydrophobic impregnating agent based on a solution of silane resin. **weber.tec aquapel WR** penetrates into the pores of the surface being treated, forming a silicone resin in situ, and as a consequence, imparts water-repellent properties to most external building surfaces. It is not a film-forming material and so will not affect the appearance or water diffusion capacity of the substrate.

**weber.tec aquapel WR** penetrates into the concrete, increasing the interfacial surface tension and significantly reducing penetration of water and water-borne contaminants, especially de-icing and marine salts.

### Features and benefits

- ▲ One-coat application
- ▲ Easy to apply by brush, roller or non-atomising spray
- ▲ Minimal effect to surface appearance
- ▲ Protects against ingress of water-borne ions (chlorides and sulphates)
- ▲ Improves freeze/thaw resistance of treated surfaces
- ▲ Reduces susceptibility to corrosion of reinforcement
- ▲ Allows treated surface to breathe

### Technical data

Composition	20% iso octyl trimethoxy silane and low molecular weight siloxanes
Solvent	White spirit

#### Tests at application rate of 3-1 m<sup>2</sup>/litre using 20% solution of iso octyl trimethoxy silane\*

Reduction of chloride ion content in concrete over uncoated control samples	89%
Reduction of water gain over uncoated concrete samples	85.5%

\*Tests by Wiss, Janney, Elstner Associates Inc under procedures the Institute in USA National Co-operative Highway Research Programme (Report 244).

### EU VOC regulations 2008

**EU limit for weber.tec aquapel WR (cat A/h):** 680 g/l (2007)/680 g/l (2010). **weber.tec aquapel WR** contains <680 g/l VOC.

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## Preparation

Surfaces must be thoroughly dry, clean, free from any contamination including oil, dirt, dust etc. and sound before the treatment is applied. New concrete should be at least 14 days old and all traces of laitance, shutter release or curing membrane should be removed and the surface allowed to dry out thoroughly.

Old, weathered surfaces should be wire brushed to remove lichen, algae, dust and any loose or flaky material. For large areas, water jetting or grit blasting may be effective. After applying water, allow at least 3 days of dry, warm weather (minimum 15°C) or dry by appropriate means such as controlled flame gun or propane torch and make good all cracks and spalled surfaces before applying the material.

**NB:** Do not use over **weber.cem fairing coat** or polymer-modified renders.

## Application

Apply only in dry weather and in well-ventilated conditions. Surfaces must be thoroughly dry.

Do not apply with an atomising spray, to wet or damp surfaces or at temperatures below 3°C.

Apply **weber.tec aquapel WR** generously by brush, non-atomising spray or roller. Do not brush out. Drying time at 20°C will be approximately 2 hours.

A thorough, one-coat application will often be sufficient, but for optimum performance in exposed locations and in areas which are liable to ponding or flooding for short periods, the material should be applied to refusal over a period of time, allowing it to soak well into the concrete, at a rate of 3 – 6 m<sup>2</sup> per litre.

On less exposed walls or soffits not subject to standing water, an application rate of 10 – 15 m<sup>2</sup> per litre will give good hydrophobic properties.

## Special note

In good, dense concrete it has been found that **weber.tec aquapel WR** (or any other silane) does not penetrate more than about 1 mm, and at this level of penetration the silicone resins formed in situ are not particularly durable to weathering. By applying a coat of **weber.tec acrylic sealer** over a **weber.tec aquapel WR** treated substrate, the silicone resin formed near the surface is protected by the excellent weathering resistance of the acrylic resin film.

In permeable concrete or masonry the penetration of **weber.tec aquapel WR** will be greater. With deeper penetration, it is more likely that the long term water repellency will be maintained without protection.

## Cleaning

Clean all brushes and tools with **weber.tec solvent 1** immediately after use.

## Packaging

**weber.tec aquapel WR** is packed in 5 litre, 25 litre and 200 litre non returnable containers.

## Coverage

### Exposed locations

Approximately 3 – 6 m<sup>2</sup> per litre.

### Sheltered locations

Approximately 10 – 15 m<sup>2</sup> per litre.

## Storage and shelf life

Store in a cool, dry place above 5°C.

Shelf life of unopened container in correct storage conditions is at least 12 months.

Once opened, use the material within 2 weeks. Replace lid immediately after use.

## Health and safety

Contains low boiling-point naphtha (white spirit).

Flammable: flash point 36°C.

Harmful by inhalation.

Irritating to eyes and skin.

Wear suitable gloves and eye/face protection.

After contact with skin, wash immediately with soap and water.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention.

**For further information, please request the Material Safety Data Sheet for this product.**

## Technical services

**Weber's** Customer Services Department has a team of experienced advisors available to provide on-site advice both at the specification stage and during application. Detailed specifications can be provided for specific projects or more general works. Site visits and on-site demonstrations can be arranged on request.

### Technical helpline

Tel: (01525) 722110

Fax: (01525) 718988

## Sales enquiries

**Weber** products are distributed throughout the UK through selected stockists and distributors. For UK sales enquiries and overseas projects, contact **Weber's** Sales office.

### Sales office

Tel: (01525) 722100

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