

## RHODORSIL RC 70 / RC90

### Preparing a ready-to-use formula

Products in the Rhodorsil® range must be diluted before application.

**Normally we recommend an active ingredient percentage of between 5 and 8%.**

The dilution ratio varies between one part of consolidant/water repellent for 4.5 to 20 parts of diluent, according to the consolidant/water repellent used and the surface being treated.

The water repellent performance of the treated materials depends on the quantity applied to the surface. It will only be optimal if a sufficient quantity of Rhodorsil® consolidant/water repellent is applied. The dilution concentration must take account of the absorption capacity of the material and its porosity. Once diluted, the solution is stable for at least one year.

### Surface preparation

Only vertical surfaces or ones with a steep slope are concerned by this type of treatment. Before application, the surface must be dry. It is therefore necessary to wait 24 hours after the last rainfall before applying. It is also necessary to wait for three days if the surface has previously been cleaned with high pressure water.

The surface to be treated must also be as clean as possible and it is therefore necessary to:

- Brush away any deposit that is not very well attached to the surface (removing surface deposits, dust and scale).
- Fill cracks greater than 3mm wide with sealant or with rendering.
- Wash any stained surfaces.

In all cases, it is essential to avoid cleaning with strongly acidic or basic detergents, as well as those based on cationic surfactants which can seriously damage the surfaces to be treated.

### Application methods

- Either by applying to the surface with a flat brush for rough and irregular materials or with a roller, particularly for small surface areas.
- Or by spraying using an air gun with different nozzles adapted to the surface area to be treated.

### Recommendations

-Whatever the application method, the product must be applied until the surface of the material is saturated.

-For the majority of materials one single coat is often sufficient. However, for very porous materials, it may be necessary to apply a second coat. This can be applied as soon as the gloss disappears as the first coat dries.

-For information, a solution of one liter Rhodorsil® water repellent at a concentration of 8% is generally sufficient to treat a surface area of around 3m<sup>2</sup>. Consumption depends on the type of surface and its porosity. There is a great difference between naturally very dense, low porosity stone (i.e. marble type rocks < 2%) and soft, high porosity limestone > 25% (Tuffeau, St Vaast). In order to obtain realistic values, notably to produce a quote, it is recommended to carry out preliminary application on a test surface of 1 to 2m<sup>2</sup>.

An indication follows of average consumptions most frequently observed on different types of surfaces:

<b>Surfaces</b>	<b>Type</b>	<b>Total Porosity %</b>	<b>Solution l/m<sup>2</sup></b>
Mortar	Standardized EN 196	12	0.3-0.6
Tuffeau	Soft limestone	43	2
St Vaast	Soft limestone	41	1.5-2.2
Massangis	Hard limestone	11	0.2
Savonnière	Half-firm limestone	27	0.5
Euville	Firm limestone	14	0.4
Rouffach Sandstone	Firm sandstone	16	0.4
Monks Park	Soft limestone	22	0.5
Leicester Brick	Terracotta	39	0.7
Queinot Brick	Terracotta	25	0.9