

### Description

Resbuild Anti-Carb has been formulated to confer long term protective and decorative properties to concrete and masonry surfaces.

The micro-porous structure of the coating acts as a barrier to the ingress of Chlorides and Carbon Dioxide and other acid gases, but allows the passage of water vapour from the substrate.

The elastomeric nature of Resbuild Anti-Carb ensures good crack bridging properties, in case of structural movement.

### Typical Uses

Where new and existing concrete and masonry structures require protection from Water, Carbon Dioxide, Sulphur Dioxide, Oxides of Nitrogen, Chlorides, Sulphates and UV radiation.

Examples: car parks, commercial and industrial buildings, bridges, subways, high rise flats, etc.

### Advantages

- Easy to clean
- Excellent UV and weathering resistance
- Single pack and easy to apply
- Protects substrates from carbonation
- Highly resistant to freeze/thaw cycling
- Elastic nature with crack bridging properties
- Allows structure to 'breathe'
- Water based and non-toxic
- Range of colours available (to BS4800 or RAL standards)

### Typical Properties

Colours: White, Light Grey, Magnolia (other colours available on request)

Finish: Eggshell

Application rate: 4-6m<sup>2</sup>/litre/coat (2 coats recommended)

Volume Solids: 56%

Wet film thickness: 180 microns per coat

Equivalent dry film thickness: 100 microns per coat

Touch dry: 30 minutes to 3 hours

Through dry: 2-16 hours

Overcoating interval: 16 hours minimum

Tensile strength: 3.7 MPa @ 20°C

Carbon Dioxide Diffusion Coefficients: 965,000

Equivalent air thickness, R: >200m @ 300 microns dft.

Water vapour transmission rate: 12g/m<sup>2</sup>/day

Service temperatures: -30°C to + 80°C

Elongation at break: 350% @ 20°C

### Procedure

#### **Surface Preparation**

Substrates shall be clean, sound and free from contaminants such as oil, grease, moss, algae, dust and any existing loose or flaking paintwork.

Concrete surfaces shall be fully cured and free from laitance, mould release oils and curing compounds.

Mould or algae shall be removed with a proprietary fungicidal wash.

High pressure water jetting may be deemed necessary for heavily contaminated surfaces.

Blow holes or pitting on the surface shall be filled using either Resbuild EPA or Resbuild Surfacer.

#### **Priming**

Priming is recommended on porous substrates. Dilute Resbuild Anti-Carb with up to 20% by volume of clean water and apply by brush, roller or airless spray at a nominal rate of 6-8m<sup>2</sup>/litre and allow to dry.

#### **Application**

Apply Resbuild Anti-Carb coating by brush, roller or airless spray at a nominal rate of 5m<sup>2</sup>/litre and allow to dry. A second coat may be subsequently applied at the same rate.

Note: This should achieve the 200 microns dry film thickness necessary for anti-carbonation properties. In applications where crack bridging properties are particularly important, a minimum d.f.t. of over 300 microns is recommended.

#### **Equipment Cleaning**

Clean equipment with water or a mixture of water and Resbuild Toolclean prior to curing of the coating.

#### **Curing**

Resbuild Anti-Carb will be touch dry following 30 minutes-3 hours and through dry after 2-16 hours (dependent on ventilation).

#### **Storage and Shelf Life**

Store in dry conditions, out of direct sunlight, at temperatures between 10°C and 25°C.

Protect from frost.

Resbuild Anti-Carb has a minimum of 12 months shelf life when stored in original, unopened containers in accordance with manufacturer's instructions.

### **Packaging**

Resbuild Anti-Carb is supplied in 10L packs

### **Coverage**

Resbuild Anti-Carb may be applied at a nominal rate of 5m<sup>2</sup>/litre/coat. The recommended two coat treatment will provide an overall d.f.t of 200 microns, which is the minimum for long term anti-carbonation properties.

### **Limitations**

Do not apply at temperatures of 3°C or less or if there is a risk of frost.

Compatibility testing of Resbuild Anti-Carb with existing paint of coatings must be carried out prior to overcoating.

### **Health and Safety**

Resbuild Anti-Carb is non-toxic both during and after use.

Any splashes should be removed from the skin using soap and water.

Please refer to Material Safety Data Sheet for additional information

Resbuild Anti-Carb shall be applied strictly in accordance with the manufacturer's instructions

For specific advice regarding any aspect of this product please consult our Technical section.

The information provided in this Product Data Sheet is intended for general guidance only and is given in good faith based on Resin Building Products Limited current knowledge and experience. No warranty in respect of fitness for a purpose, or any other liability whatsoever can be inferred from the information contained within this data sheet. Users should determine the suitability of the materials for their particular application and should always refer to the most recent issue of the Product Data Sheet for the product concerned. All materials are supplied in accordance with our standard terms and conditions of sale (available upon request).