



# Multicoat<sup>®</sup> CarboNil<sup>®</sup> W1300

(formerly known as AntiCarb)

100% Acrylic Water borne Anti-Carbonation Coating

## PRODUCT DESCRIPTION:

**CarboNil<sup>®</sup> W1300** is water based high solid elastomeric coating utilizing the latest advances in acrylic technology. **CarboNil<sup>®</sup> W1300** 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 **CarboNil<sup>®</sup> W1300** ensures good crack bridging properties, in case of structural movement.

## 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.

## BENEFITS:

- \* Easy to clean
- \* Excellent 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", but does not allow CO<sub>2</sub> to pass.
- \* Water based and non-toxic
- \* Range of colours available (to RAL standards)

## TECHNICAL DETAILS:





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Nature	Single Component Water Thinnable Acrylic Material
Colour	White / Other Colours
Application time at 30°C	3 to 4 hours
Surface dry time at 30°C	20 to 30 minutes
Hard dry time at 30°C	8 to 10 hours
Complete curing time at 30°C	3 days
Recoat ability time at 30°C	4 to 5 hours
Carbon Dioxide Diffusion Resistance coefficient	>695000
Air thickness, R , DIN EN 1062-6	> 100 m
Finish	Smooth and matt
Dry film thickness	300 µm
Coverage	40 ft <sup>2</sup> /kg/100 micron thickness, allow appropriate loss factor during mixing and application.
Adhesion Strength (ASTM D412)	>2 N/mm <sup>2</sup> @ 25 °C
Elongation (ASTM D412)	> 300% @ 25 °C
Volume Solid% by Weight (ASTM D2369)	56% ± 2%
Water Vapour Transmission Rate	12g/sq.m/day
Recommended Coats	2 to 3 coats depending upon the substrate
Water dilution	5 to 20% water to be added to make the brushable consistency
Packing	5kg, 25kg

## APPLICATION DATA:

Use a power mixer capable of uniformly mixing the entire container prior to use. Reducing the mixture is not recommended, as it affects the coatings ability to achieve a heavy film build with excellent verticle hold and hide.

### Preparation of Surfaces

All surfaces must be clean and dry and free of any dust, dirt, oil, surface chemicals or other chemicals or other contaminants that may interface



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MULTICOAT CARBONIL W1300/2015/R3-2019



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with optimum adhesion. All loose gravel, if present, shall be removed by power sweeping and/or vacuuming. Remaining gravel shall be power spud to achieve the smoothest surface possible. Any unsound areas in the roof, i.e. blisters, delamination, deterioration, moisture saturation, severe corrosion, sharp projections, ridges, etc. shall be repaired or replaced.

Low areas that hold excessive ponding water must be brought into conformance by installing additional drains or adding additional slope to the existing drains.

## Crack Repair/Honeycombed Concrete Repair

Clean all cracks with wire brush and water. Make sure that all loose particles or loose concrete are removed till the depth of sound surface.

Prepare repair mortar by mixing 1 part by volume of **AQUABLOCK** (after mixing two components) with 2 part by volume of Cement (OPC or white cement) and suitable quantity for to get dough consistency. Fill completely the cracks with trowel and level the surface. Similarly cleansed honeycombed surface should be filled with above prepared mix to get leveled surface. Surface with undulation should be levelled-up with **Wallshine** cement based leveling coat.

Allow repaired surface to dry for 24 hours.

## Application of Coating

Reinforce all moving cracks, seams, splits, control joints, verticle/horizontal interfaces, roof termination pints, openings, transition areas, around the base of all vents pipes and other protrusions, as well as around HVAC units and other surface mounted equipment with Fibrecon



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Mesh, a polyester reinforcement fabric, embedded in to **MULTICOAT CarboNil<sup>®</sup> W1300**.

Apply **CarboNil<sup>®</sup> W1300** by brush or spray on well prepared and primed surface in minimum two coats to build up total thickness of 200 to 300 microns. Earlier coat should be touch dry before applying next coat.

## CLEANING:

All tools should be cleaned with water immediately after use.

## STORAGE:

Store in dry, frost-free conditions at moderate temperatures not greater than 25 °C.

## WARRANTY

Multichem warrant **CarboNil<sup>®</sup> W1300** to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of **CarboNil<sup>®</sup> W1300**.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of **CarboNil<sup>®</sup> W1300**.

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.



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