



# SERVIPROOF EM 200 - AC

High performance elastomeric anti carbonation protective coating.

## DESCRIPTION

**SERVIPROOF EM 200 - AC** is a single component water based acrylic liquid. Upon cure it forms an elastomeric coating that resists carbonation and prevents chloride ion ingress with superior crack bridging ability.

## ADVANTAGES/FEATURES

- Single component easy to apply.
- Highly durable with excellent UV resistance
- Flexible with superior crack bridging ability
- Protective against CO<sub>2</sub> & other atmospheric gases
- Breathable
- Environmentally friendly (solvent free)

## USES

- **SERVIPROOF EM 200 - AC** is designed for the protection & enhancement of concrete structures against carbonation and chloride ingress.
- As an elastic protective top coating with concrete repair works

## METHOD OF USE

General recommended guidelines as follows  
(N.B.) Application procedure may vary slightly depending on site conditions.

- **Surface preparation:** Surfaces receiving **SERVIPROOF EM 200 - AC** should be clean, dry Oil & grease free. All loose particles or peeling materials should be removed. New concrete substrate should be at least 28 days old.

- **Application**

**SERVIPROOF EM 200 - AC** can be applied by a brush, roll or airless spray machine. Concrete cracks and potholes shall be repaired by proper concrete repair mortar. Application is not recommended at temperature below 10 °C (50 °F) or if rain or dew is likely to occur before product dries. A primer coat of **SERVIPROOF EM 200 - AC** is recommended to be applied by diluting with 15% water and mix thoroughly before coating the entire substrate, then allow to dry for 4 - 6 hours depending on ambient temperature.

The first coat of **SERVIPROOF EM 200 - AC** to be applied without dilution at the rate of 0.3 - 0.4 kg/m<sup>2</sup> and allow to dry. Second coat should be applied perpendicular to the first coat at the same mentioned rate.

- **Cleaning**

Tools can be washed with water while wet. If dries it can be cleaned mechanically

## NOTE:

**SERVIPROOF EM 200 - AC** should not be applied at temperature below +5 °C or dropping

**PACKAGING:** 20 kg pail/ 200 kg drum

## COVERAGE RATE:

Theoretical coverage is 0.3 - 0.4 kg/m<sup>2</sup> per coat.

## SHELF LIFE & STORAGE

12 months from manufacturing date in original sealed container & under shaded area at temperature not exceeding 35 °C

## HEALTH & SAFETY

As per all acrylic products, care should be taken during use and storage. To avoid contact with skin, eyes and mouth, wear suitable protective clothing, gloves and eye/face protection.

Should accidental skin contact occur, rinse immediately with plenty of water. If swallowed, seek medical advice immediately. Do not induce vomiting

**SERVIPROOF AC-W 103** is not flammable



**THECHNICAL DATA**

Characteristics	Test Method	Typical Value
Color*		White - Grey
Solid content by weight	(ASTM D 1076)	62 %
Viscosity	(ISO 1652, spindle 2 @20 rpm)	3000 - 3500 cP
Density	(ASTM D 1475)	1.25 kg/liter
Weathering Resistance	(ASTM G 154)	2000 hr. No deterioration of function
Curing time to touch		4 -6 hr.
Full curing		7 days

\* Other colors are available upon request.

\*\* Above data are subjected to a ±10 % tolerance

**Carbon Dioxide Diffusion Coefficient (μCO<sub>2</sub>)**

( BS EN 1062 (6) - 2002, method A)

Dry film thickness	d = 347 μm
Equivalent air layer thickness	(Sd, CO <sub>2</sub> = 81 m
Diffusion coefficient CO <sub>2</sub>	μCO <sub>2</sub> = 2.33 x 10 <sup>5</sup>
Requirements for protection	2:50 m

**Water Vapor Diffusion Coefficient (μH<sub>2</sub>O)**

( BS EN 1062 (6) - 2002, method A)

Dry film thickness	d = 347 μm
Equivalent air layer thickness	Sd, H <sub>2</sub> O = 0.97 m
Diffusion coefficient H <sub>2</sub> O	μH <sub>2</sub> O = 2.79 x 10 <sup>3</sup>
Requirements for protection	:54m