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## CRP™ LW (Aqueous Solution)

*Waterproofing, Surface  
Hardening, Restoration &  
Corrosion Protection*

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### DESCRIPTION

CRP™ LW is a chloride free, surface applied aqueous solution, especially formulated as a Penetrative Waterproofing Corrosion Inhibitor (for steel reinforcement) that significantly increases the surface hardness of old and new (hardening and hardened) concrete. After application the CRP™ LW remains active in the concrete body to provide in contact with water, self-generative healing properties to seal future hairline cracks.

### USES

1. As a waterproofing and durability enhancer of existing concrete structures **CRP™ LW**
  - Provides long-term waterproofing
  - Seals cracks up to 2mm
  - Densifies and hardens the surface layer
  - Increases chemical resistance and durability
  - Restores the protective properties of the concrete against reinforcement corrosion
2. On new hardening concrete, **CRP™ LW**
  - Reduces water loss by about 30%
  - Eliminates surface cracking
  - Increases waterproofing, surface hardness and durability
  - Enhances concrete protective properties against steel reinforcement corrosion

3. As a primer for most cementitious renders.

**CRP™ LW** increases the adhesive bond strength of the render.

### AREAS OF USE

- Waterproofing of roof desks, balconies, basements, concrete tanks, tunnels etc.
- Restoration of degraded concrete structures (approved for use on Heritage sites)
- Surface hardening and abrasion resistance of concrete surface i.e. floors, roadworks, bridge decks etc.

### KEY BENEFITS

- Easy application for relatively high waterproofing
- Waterproofing in difficult to access places
- Does not require future maintenance
- Trafficable after the first watering

**INSTALLATION** (Refer MSDS before applying)

**Surface preparation:** CRP™ LW must be applied to a clean and dry surface free of contaminants. All materials on the concrete surface that retard or resist penetration should be removed. Pressure washing is recommended as minimum preparation.  
**Note:** Priming with CRP™ P is recommended when the treated concrete is produced on a base of pozzolanic Portland cement deeply carbonized or vastly leached. Apply CRP™ P to a clean and dry surface in the range of 2.3 – 2.7 sq.metres/litre for the cracked areas and 2.7 – 3.0 sq.metres /litres for normal areas. Allow the surface to become touch dried (3-6 hours) and spray with water to fully wet.

CRP™ LW can be applied when the CRP™ P treated concrete surface becomes touch dry.

**Application rate (CRP™ LW)** Depends on the condition of concrete but usually in the range of 3.0 – 3.5 sq.metres/litre for the cracked area and 3.5 – 4.0 sq.metres/litre for normal areas.



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**Application: CRP™ LW** can be applied by spray, brush, mop or broom. Treat all visible cracks by applying **CRP™ LW** along the line of the crack to rejection before fully wetting the entire concrete surface with **CRP™ LW**. Allow the surface to become touch dried (3-6 hours) and spray with water to fully wet. Waterproofing properties will develop over a period of time with exposure to moisture but can be attained in 72 hours by further spraying with water 24 and 48 hours after application.

#### PROPERTIES OF TREATED CONCRETE

**Water permeability:** Waterproof according to DIN 1048

**Friction abrasion resistance-** Russian Federation Standard 13087 (Analogue of DIN 52108) Mass loss is reduced by up to 40 times

**Impact abrasion resistance**  
AS/NZS 4456.9-2003  
The abrasion resistance is increased

**Chloride Ion Diffusion**

NT Build 443 1995-11  
Reduced approximately two times

#### Reinforcement corrosion inhibition

Polarisation curves method

#### Water absorption

Taywood Engineering Test  
Absorption is decreased by approximately 35%

**Water retention for new hardening concrete**  
AS3799 – 1998

Water loss is reduced by approximately 30%

#### CONCRETE REPAIR PRODUCTS

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