



112A NARRACAN DRIVE
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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 decks, 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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