

**PRODUCT INFORMATION DATA SHEET****DECEMBER 2004****DESCRIPTION**

C R P L Aqueous Solution is a chemically blended aqueous solution, free of chlorides, especially formulated to enhance the properties of the concrete by surface application during curing and after hardening.

**USE**

1. As a curing aid on new concrete structures it additionally:
  - Promotes efficient cement hydration.
  - Reduces surface cracking.
  - Increases surface hardness, impermeability and durability.
  - Inhibits reinforcement corrosion.
  - Significantly increases resistance to carbonation.
  - Excellent as a moisture barrier.

**Note:** When used as a curing aid C R P L is applied after the surface becomes sufficiently hard for pedestrian traffic but not earlier than 12 hours and within 24 hours of installation.

2. As a performance enhancer of existing concrete structures it:
  - Densifies, hardens the surface and inhibits reinforcement corrosion.
  - Restores the protective properties of the concrete against reinforcement corrosion.
  - Increases impermeability, chemical resistance and durability.
3. As a primer for concrete render it:
  - Increases the bond strength.

**AREAS OF USE**

- Curing compound for new concrete.
- Restoration of degraded concrete structures. (Approved for use on Heritage sites.)
- Dust proofing of factory floors.
- Surface hardening of concrete surfaces i.e. floors, roadworks, bridge decks etc.
- Reinstatement of poorly finished concrete.
- Primer for concrete render.

**DURABILITY**

Depends on the degree of degradation of the original concrete surface and the working environment. For sound, carbonized concrete, full restoration of the original surface properties is possible.

**TERMS & CONDITIONS OF SALE**

Refer to back of this sheet.

**INSTALLATION** (Refer MSDS before applying)**SURFACE PREPARATION**

Product must be applied to a clean surface free of contaminants. Pressure washing is recommended as minimum preparation.

No preparation necessary when used as a curing agent.

**APPLICATION**

C R P L is a ready to use product which can be applied by brush, mop, broom or spray. Apply to clean, dry surface using sufficient material to fully wet the surface.

**APPLICATION RATE**

Depends on the absorbency of the surface but usually in the range of 2 – 5 square metres per litre.

**CURING TIME**

Not applicable, treated concrete can be put into service immediately surface is dry.

**PROPERTIES OF TREATED CONCRETE**

Laboratory tests show (test certificates available):

**Abrasion resistance**

Mass loss reduced by up to 40 times.

**Reinforcement corrosion inhibition**

Steel reinforcement is passivated.

**Water absorption**

Reduced by approximately 20%.

**Water retention during curing**

Water loss reduced by 20%.

**Water impermeability**

Increased by approximately 20%.

**Chloride ions diffusion coefficient**

Up to 48% reduction.

Resistance to carbonation significantly increased.

**ADDITIONAL INFORMATION**

C R P L is normally applied as a singled coat but if double coating is deemed necessary for badly degraded concrete the second coat can be applied after four hours.

Product is best applied in the temperature range of +10<sup>0</sup>C to +25<sup>0</sup>C.

Ref:C R P Sales Manual\C R P L Prod info DATA Sheet.doc(hg)