

# Centrament Proof CWL (Formerly known as MoyaProof CWL)

## Liquid Waterproofing System by Crystallization

### Description

**Centrament Proof CWL** is a single component liquid waterproofing system by crystallization method. It penetrates into the micropores and fine capillaries inside the concrete. It reacts with the cement matrix to form insoluble inorganic complex ion crystals. As long as moisture is present, **Centrament Proof CWL** remains active and will seal hairline cracks both present and future.

### Advantages

- Penetrates deep into the concrete
- Very good impermeability
- Produces dense and durable concrete
- Reduces chloride and sulphate penetration
- Prevents corrosion in structures
- Non-toxic and eco-friendly
- UV resistant, no topping or protection required, can be overcoated
- Cannot be damaged, no debond as it is a subsurface membrane
- Suitable for use in contact with potable water
- Remains active through out the life of concrete
- No protection boards required when backfilling
- Reseals hairline cracks (self healing) on contact with moisture
- Can be used with concrete containing PFA, GBFS, or Silica fume
- Increases useful life of structure
- Increases concrete's hardness

### Application

#### Areas of application

**Centrament Proof CWL** is a new generation waterproofing system specially for aggressive environment for below and above grade applications. It can be used for various applications in concrete structures including marine and coastal structures, rafts, precast panels, water storage tanks, highways, runways, roofs, decks, bridges, cut and cover tunnels, silos, car parks, swimming pools, pipes, lift pits, etc.

#### Surface Preparation

Concrete surfaces to be treated must be clean and free of laitance, dirt, films, paint, coatings or other foreign matter. The surfaces must also have an open capillary system for the **Centrament Proof CWL** treatment. If surfaces are too smooth the concrete should be acid etched, lightly sandblasted or waterblasted. Structural defects such as cracks, faulty construction joints and honeycombs should be routed out to sound concrete and repaired. **Centrament Proof CWL** is not designed for use in expansion joints or "moving" cracks. Horizontal surfaces should preferably have a

#### Application

**Centrament Proof CWL** should be applied after two to four weeks of pouring the concrete or any time later. It is effective especially on old concrete. **Centrament Proof CWL** may be applied to concrete immediately after forms are stripped acting as a curing compound and sealing material. **Centrament Proof CWL** can be applied by spray, brush or roller. For optimum results on horizontal concrete surfaces, it is recommended that **Centrament Proof CWL** be flooded over the concrete. For vertical surfaces, spray application is recommended. Apply with low pressure spray & allow to dry for 5-6 hours before applying the second coat. Concrete surface must be dry, 24 hrs before application of **Centrament Proof CWL**. Sealing of joints etc., should be carried out before application. In below ground level concrete surface applications, ensure that the concrete surfaces are dry before application. If high hydrostatic pressures are anticipated, apply a coat of **Centrament Proof CWP** over the **Centrament Proof CWL**. **Centrament Proof CWP** should be cured by keeping moist for 12-14 days after application

rough wood float or broom finish.

### Curing

Water is necessary for curing which facilitates reaction of Centrament Proof CWL. Curing should be done by placing wet hessian over the applied area for a minimum period of 5-7 days. Mist spray curing with water can also be carried out.

### Limitations

**Centrament Proof CWL** should not come in contact with glass, precoated surface like paints, curing compounds etc. **Centrament Proof CWL** should not be applied at temperatures below 5°C. Do not flood too much of water on the applied surface for initial 4-5 days.

### Coverage

5 m<sup>2</sup>/ltr/coat. Actual coverage depends on porosity and texture of the substrate.

### Typical Properties at 25°C

| Property           | Test Method  | Value                                  |
|--------------------|--------------|--|
| Component          | -            | Single                                 |
| Form               | -            | Liquid                                 |
| Appearance         | -            | Clear to Opaque                        |
| Specific Gravity   | ASTM D1475   | 1.10 +/- 0.05                          |
| Toxicity           | BS 6920-1    | Non-Toxic                              |
| pH                 | BS 1377-3    | 11-12                                  |
| Drying Time        | ASTM D2939   | Minimum 2 hrs                          |
| Recoat Time        | -            | 5-6 hrs                                |
| Impact test        | ASTM C805    | 15-20% increase over untreated surface |
| Water Permeability | BSEN 12390-8 | > 80% improvement over control         |

*\*Result of the test carried out is based on a particular concrete mix.  
Contact MC technical team for more information.*

### General Information

|              |  |
|--------------|--|
| Package Size | 5 ltr and 15 ltr   |
| Shelf Life   | 12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature/humidity may reduce shelf life |
| Cleaning     | Clean all equipments and tools with water immediately after use.   |

## Health and Safety

|                        |   |
|------------------------|---|
| PPE's                  | Gloves, goggles and suitable mask must be worn.   |
| Precaution             | Contact with skin, eyes, etc. must be avoided. If swallowed seek medical attention immediately. |
| Hazard                 | Regarded as non-hazardous for transportation.   |
| Disposal               | Do not reuse containers. To be disposed off as per local rules and regulations.                 |
| Additional Information | Refer MSDS. (Available on request.)   |

## Technical Support

MC Technical Services are available on request for on site support to assist in the correct use of its products.

### NOTE:

*It is the customer's responsibility to satisfy themselves by checking with the company whether information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current data sheets. However, MC-Bauchemie does not warrant or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendations relating to application and end use are given in good faith. The products are guaranteed against any manufacturing defects and are sold subject to MC- Bauchemie's standard terms and conditions of sale.*