



**Chem Coats (Pvt) Ltd.**

# ChemCoat Slurry

Single component cementitious waterproofing slurry

## DESCRIPTION

ChemCoat Slurry is a ready-for-use (merely add water) Portland cement based waterproofing slurry. It consists of a blend of cements, graded quartz and active chemical constituents. It is supplied as a fine, grey powder.

## USES

ChemCoat Slurry is recommended for:

- Tunnels
- Dams
- Reservoirs
- Silos
- Supporting walls
- Dams
- Underground structures
- Pools & Ponds
- Foundations
- Basements

## FEATURES & BENEFITS

- Economical
- Wide range of Applications
- Easy to use.

ChemCoat Slurry is an economical, easily applied method of providing a permanent waterproof skin on concrete, plaster and brick surfaces. It may be used on both new and existing structures on either the wet or the dry side.

ChemCoat Slurry acts by the conversion of the free lime in the concrete to insoluble calcium compounds. These seal against capillary ingress of water into the dry slurry film. Water soluble materials in the slurry penetrate the substrate surface where they in turn crystallize, thus anchoring the coating to the substrate. ChemCoat Slurry must not be exposed to backwater pressure, running water or rain, until it has fully set. The treated surface must be protected from heat and wind. Drying should be as slow as possible.

Note: Since the ChemCoat Slurry system is based on a chemical reaction taking place inside the concrete, some moisture penetration can be expected until voids are sealed by the crystallization process.

## SURFACE PREPARATION

ChemCoat Slurry is designed for use on porous, absorbent surfaces. Highly porous surfaces such as common bricks should be plaster rendered before waterproofing. All surfaces must be clean and sound. They must be free of laitance, shutter release oil, dust, loose particles and any other foreign matter including fungal growth. Large cracks and honeycomb should be given a thin coating of ChemCoat Slurry, mixed as described in this data sheet. They should then be filled with 3:1 - 4:1 sand/cement mortar prior to applying the overall ChemCoat Slurry system. Floor/wall joints should be cut to a dovetail and caulked with a 4:1 sand/cement mortar, prior to applying the ChemCoat Slurry system.



## TYPICAL PHYSICAL PROPERTIES

Appearance	Fine powder, which is Somewhat hygroscopic
Bulk density	1.20 kg/ L
Service temperature (fully cured)	-20° C to +80° C
Colour	Grey
Physiological effect	As cement
Primer	Self-priming

## COVERAGE

**1.** Waterproofing externally against damp earth and moist ground. 2 COATS using 2-3 kg/m<sup>2</sup>

**2.** Waterproofing internally against rising damp or up to 1 m head of underground water. 2COATS using 4-5 kg/m<sup>2</sup>. Treated floor surfaces must be protected against subsequent traffic with a cement rendering.

**3.** Waterproofing internally to retain water as in reservoirs. Waterproofing externally against more than 1 head of underground water; water pressure; surfaces below the water table; earth covered slabs. 3COATS using 6-7 kg/m<sup>2</sup>

## APPLICATION

Any surface to be treated with ChemCoat Slurry must be fully saturated beforehand, preferably the day before. Surfaces such as floors must be free of ponded water and verticals must be free of water running down the face. Apply ChemCoat Slurry by hand using either a medium-hard block brush or a notched trowel.

Treatment must be applied in two or three coats. A second coat must be applied as soon as the first coat can no longer be disturbed by brushing. If a third coat is required it must follow within 24 hours, with the surface having again been pre-dampened. On horizontal surfaces ChemCoat Slurry is



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normally applied by brush, although the second coat of a three-coat system may be notch trowelled. Vertical surfaces, except for the final coat of the system are usually applied by notch trowel. The final coat of a system must be applied by brush and left as smooth as possible.

## CLEANING

Tools, brushes and mixing equipment should be cleaned immediately after use and before material has set.

## PROTECTION ON COMPLETION

ChemCoat Slurry may be over painted with high quality PVA/acrylic paint.

## PACKAGING

ChemCoat Slurry is supplied in 20 kg polythene lined paper bag.

## HANDLING & STORAGE

This product has a shelf life of 12 months if kept in a dry cool place in the original packaging. In more extreme conditions this period might be shortened.

## HEALTH & SAFETY

ChemCoat Slurry is alkaline and should not be allowed contact with skin and eyes. Avoid inhalation of dust during mixing by wearing dust masks. The use of gloves, eye protection and dust masks is advised. Splashes into eyes should be washed immediately with plenty of clean water and medical advice sought thereafter.

**Cured ChemCoat Slurry is inert and harmless.**

## IMPORTANT NOTE

The information given in this data sheet is based on current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no controls over methods of applications, site conditions etc. In view of the continuing research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact your local Chem Coats representative.

## RANGE OF PRODUCTS

WATERPROOFING SYSTEMS  
INDUSTRIAL FLOOR SURFACES  
PROTECTIVE COATINGS

PREPACKED REPAIR MORTARS  
CEMENTITIOUS & EPOXY GROUTS  
CONCRETE ADMIXTURES

SEALANTS  
CRACK INJECTION  
CONCRETE ADHESIVE