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PRODUCT INFORMATION

CEMWET -CWPC Crystalline Waterproofing Compound

PRODUCT DESCRIPTION

CEMWET-CWPC is a cementitious, ready-mixed, in-depth waterproofer. **CEMWET-CWPC** is based on grey Portland cement.

AREAS OF APPLICATION

- substrate: concrete
- active or passive waterproofing and protection against water and moisture.
- foundations, slabs, retaining walls, construction joints, sewage treatment plants, swimming pools, backfilled structural elements, etc.
- drinking water structures

PROPERTIES

It consists of grey Portland cement, specially treated quartz sand and a compound of active chemicals. When **CEMWET-CWPC** applied to a concrete surface the active chemicals combine with the free lime and moisture present in the capillary tract, to form insoluble crystalline complexes. These crystals block the capillaries and minor shrinkage cracks in the concrete to prevent any further water ingress (even under pressure). However, the **CEMWET** layer will still allow the passage of water vapour through the structure (i.e. the concrete will still be able to "breathe"). In addition to waterproofing the structure, **CEMWET-CWPC** protects concrete against sea water, waste water, aggressive ground water and certain chemical solutions.

SURFACE PREPARATION

The substrate to be treated must be sound and even, open-pored, roughened and its surface free from voids, large cracks or ridges. Any adhesion reducing substances like bitumen, oil, grease, remains of paint or laitance have to be removed by suitable means. Water leaks must be stopped e.g. with **AQUA PLUG**.

Thoroughly moisten the substrate, it must be damp but not wet at the time of application. Any surface water on horizontal surfaces must be removed.

MIXING :

Mix by volume 5 parts of **CEMWET-CWPC** with approx. 2 parts of tap water (25 kg + approx. 7–8.5 litres) in a clean container for at least 3 minutes to a lump-free, homogeneous consistency of thick oil paint. Use a mechanical mixer.

APPLICATION :

CEMWET-CWPC is applied with brush, suitable spray equipment or by dry sprinkling.

Brush Application :

Ensure that all cavities in the substrate are filled. Crosswise application: vertically bottom-up, then horizontally.

Spray Application :

CEMWET-CWPC can be applied with a suitable fine mortar spraying device. For maximum spray pattern it should be possible to adjust volume of product as well as air pressure volume. The nozzle diameter is approx. 4 mm. The first layer of **CEMWET** is applied in circular motion with the spray nozzle held at a 90° angle to the substrate. The final layer can be left as a spray finish or treated to a specified finish.

Apply subsequent coat whilst previous coat is still damp at the surface. The waiting time before applying the following coat depends on local climate conditions such as humidity, temperature, etc. The previous coat must not be damaged during application of the following coat. To maintain workability of the material do not add water, simply re-stir the mixture.

Dry Sprinkle and Power Trowel Application :

The concrete is poured, vibrated and screeded as usual. When the concrete to be treated starts to reach initial set, the specified amount of **CEMWET-CWPC** is dry-distributed by hand using a sieve (mesh size of 1 mm) or suitable spreader on to the concrete surface. The powder is then trowelled into the substrate until coverage is uniform and the specific finish is achieved.

Do not apply at temperatures below +5 °C or to a frozen substrate.

CURING :

Keep damp for at least 5 days and provide suitable protection against extreme weather conditions (e.g. sun, wind, frost) while setting. The freshly treated surface should be protected from rain for a minimum period of 24 h. In closed spaces and deep pits, suitable air circulation should be provided for 24 hours following the **CEMWET-CWPC** treatment.

BACKFILLING :

Backfilling can be carried out 3 days after completion of the **CEMWET CWPC** treatment.

PLASTERING/COATING :

Surfaces treated with **CEMWET-CWPC** products which are to be coated or painted should be left to cure for at least 28 days.

At the end of the curing period, prior to the application of coatings or paints, the surfaces should be saturated with water and neutralised with diluted hydrochloric acid (1:8 / approx. 3.5%). Observe precautionary measures! Following this, the area must be thoroughly rinsed with water.

When a plaster or render finish is required on top of a **CEMWET -CWPC** treatment it is essential to apply a rough cast of sand and cement on the final **CEMWET** coat while it is still tacky. On hardened **CEMWET** surfaces apply an appropriate bonding agent before rendering.

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Coatings on top of a CEMWET treatment have to be alkali resistant. Decorative coatings applied on the passive water pressure side are recommended to be water vapour permeable

FILLING OF WATER RETAINING STRUCTURES :

Filling can take place when the surface treatment has hardened sufficiently, usually not less than 14 days after application. However, if earlier filling is specifically required, filling may be considered after not less than 7 days, provided the surface is thoroughly checked for hardness. A careful cleaning and disinfection prior to the first operation is essential.

PACKAGING : 25 kg PE-lined HDPE bag

STORAGE :

When stored in a dry place in unopened, undamaged original packaging, shelf life is 12 months.

CONSUMPTION :

STRUCTURAL ELEMENT	TYPE OF IMPACT	TYPE OF APPLICATION	CONSUMPTION
Concrete Slab	Positive or negative Water pressure	Dry sprinkle, brush or spray in 1 coat	1.2 kg/m ²
Concrete Slab	Moisture/no water pressure	Brush or spray in 1 coat	0.8 kg/m ²
Concrete Walls	Positive or negative water pressure	Brush or spray in 2 coats	1.5kg/m ²
Construction Joints (Horizontal and/or vertical)	Water pressure	brush in 1 coat	1.5kg/m ²
Concrete Slab/Walls/Joints	Waterproof Concrete Structure	Insitu Concrete	3 - 4kg/m ³ (0.8% by Wt. of Cement)
For details please refer to specifications			

TECHNICAL DATA

Appearance grey powder.

Workability at 20 °C [min] approx. 30

Setting time at 20 °C [h] 1–2

All data are averages of several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these value

PRICE, PERIOD OF DELIVERY AND TERMS OF BUSINESS ON REQUEST

MANUFACTURED BY

Asian Laboratories

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