

CEMTEC TAMSEAL 20

WATERPROOFING BY CRYSTALLIZATION WITH IMPROVED ELASTICITY



DESCRIPTION:

CEMTEC TAMSEAL 20 is an economical, cement based waterproofing material. It is applied as surface treatment on concrete brickwork and blockwork. It provides a deep seal penetration and permanent protection against fresh and salt water under pressure. **CEMTEC TAMSEAL 20** has been tested accordance with BS 6920: 1988 to meet the requirements of the water research council for use with potable water.

FEATURES & ADVANTAGES

- Can withstand up to 70 m hydrostatic pressure.
- Complies with BS 6920: 1988 and is WRC approved.
- Waterproof whether applied internally and externally.
- Cured coating reduces risk of efflorescence and salting.
- Good adhesion.
- Elastic, compensates for small surface movements.
- Non-toxic
- Durable, lasts as long as the concrete.
- Economical and simple to apply

BASIC USES

CEMTEC TAMSEAL 20 is non-toxic and waterproof whether applied internally or externally, so it can be used for many applications including the waterproofing and protection of :

- Water tanks
- Dams
- Tunnels
- Bridge decks
- Foundations
- Reservoirs
- Dock gates
- Swimming pools
- Retaining walls
- Sewage treatment works

HOW CEMTEC TAMSEAL 20 WORKS

CEMTEC TAMSEAL 20 penetrates into the pores of the material by capillary action and is channelled to the lower depth of the concrete by the moisture present, even into the smallest pores and capillaries. The alkali silicates combine with the water and free calcium particles, forming crystals. This is known as crystallization process. Once the crystals have formed, they remain permanent. Further contact with water will reactive the sealing process. Thus the lower depths of the concrete form an integral mass with the surface, which cannot be blown off by hydrostatic pressure.

SPECIFICATIONS

Supply Form	Powder
Mixed Density	2.0 kg.
Application Temp	>5° C.
Pot life	20 minutes
Initial set	60 minutes
Bonding Strength	>1.2 MPa
Toxicity	Non-toxic

SURFACE PREPARATION

All concrete to be treated with **CEMTEC TAMSEAL 20** must be clean and have an "open" capillary system. Remove laitance, dirt, grease, etc. by means of high pressure water jetting, wet sandblasting or wire brushing. Faulty concrete in the form of cracks, honey combing, etc. must be chased out, repaired and made good. Surfaces must be carefully pre-wetted prior to application. The concrete surface must be damp but not wet.

SLURRY APPLICATION

Apply **CEMTEC TAMSEAL 20** in one or two coats according to specifications by masonry brush or appropriate power spray equipment. When two coats are specified apply the second coat whilst the first is still "Green".

MIXING

For application as a slurry, **CEMTEC TAMSEAL 20** requires approx. 8-9 liters of clean water to a 25 kg bag of material. Mix only as much material as can be used within 20 minutes and stir mixing frequently. If the mixture starts to set do not add more water, simply remix to restore workability

COVERAGE	<ul style="list-style-type: none"> ● Concrete surface to be back filled ● Two coats of CEMTEC TAMSEAL 20 at 0.75 kg/ Sqm. Brush or roller applied ● Water retaining structures, internal concrete wall surfaces. ● Two coats of CEMTEC TAMSEAL 20 The first at 0.75 kg/Sqm. The second at 1Kg/Sqm. brush or roller applied.
PACKAGING	25 Kg bag.
COLOR	Concrete Grey color

DRY SHAKE

(For horizontal surfaces only)

The specified amount of **CEMTEC TAMSEAL 20** will be distributed in powder form through a sieve and trowelled into the freshly-placed concrete once it has reached initial set.

CURING

The treated areas should be kept damp for a period of 5 days and must be protected against direct sun, wind and frost by covering with polythene sheets, damp hessian or similar.

CONCRETE SLAB

CEMTEC TAMSEAL 20 at 1 kg/Sqm. Applied in one slurry coat to hardened concrete or dry sprinkle and trowel applied to fresh concrete when it has reached initial set.

SHELF LIFE

CEMTEC TAMSEAL 20 can be stored in tightly sealed original bags for 12 months if kept dry and at moderate temperature.

CAUTION

Water leakage, must be presealed by means of a quick set plugging mortar Aquaplug or by injection. During the application of polyurethane hydro active injection resins no pressurized water should be allowed to seep through the substrate. Slurry installations which may be exposed to mechanical stress, should always be covered with earth or with another protection layer.

HEALTH & SAFETY

- Use protective clothing gloves, mask, goggles, etc.
- Avoid inhalation or contact with skin or eyes. In such events remove the person to fresh air, water with clean water over the affected area and call for medical attention.
- Smoking should be strictly prohibited during application. In confined areas of application, breathing equipment should be made available for operatives.

Quality Statement

CMCI manufactures its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products CMCI also offers full technical field support to consultants, Architects, contractors, applicators and End Users.

"High Quality Construction Chemicals"
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The Technical Specification information and recommendations given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.