

CHEMSEAL - 20



CEMENTITIOUS CAPILLARY CRYSTALLINE WATERPROOFING COATING

DESCRIPTION:

CHEMSEAL 20 is cement based non-toxic waterproofing system, which provides a permanent solution to water leakage, ingress or seepage in concrete structures or any cementitious substrates. Applied as a surface treatment, **CHEMSEAL 20** provides a deep seal penetration and protects against fresh and salt water under pressure.

CHEMSEAL 20 penetrates into the pores of the substrate by capillary action and is channeled to the lower depths of the concrete by the moisture that is present, this occurs even in the smallest pores and capillaries. The reaction between moisture and the active **CHEMSEAL 20** chemicals creates a continuous barrier of insoluble crystals. The crystal formation follows the water back as far as it is present in the structure. The capillaries are permanently blocked to the passage of water however vapor may pass allowing the structure to breathe.

Rate and penetration of crystal formation depends on the presence of free lime and the density of the concrete. Old concrete may have no free lime present and these needs to be determined prior to application. Seek advice prior to waterproofing old structures.

DIRECTIONS FOR USE:

Surface Preparation:

Surfaces to be treated must be free from dust, dirt, oil, grease, paint, curing compound or any previous surface treatment that will impair adhesion or inhibit penetration of the system. Remove any laitance and provide an open pored slightly rough surface.

Make good any areas of weak or unsound concrete. Dry concrete must be saturated for 24 hours prior to application. Surfaces should be damp at the time of application.

AREA OF APPLICATION:

CHEMSEAL 20 is applied internally & externally, it can be used for any water retaining and water excluding applications including the Waterproofing and protection of:

Water- Retaining

Water tanks
Foundations
Canals
Dams
Swimming pools
Reservoirs
Sea Water Intake Channels

Water Excluding

Tunnels
Inspection pits
Foundation pile caps
Basements & Cellars
Construction joints
Lift shafts
Sea Walls

APPLICATION:

CHEMSEAL 20 should be applied to the surface in contact with the water wherever possible. This will result in accelerated penetration and crystal formation.

CHEMSEAL 20 should be applied to the damp, prepared substrate by brush or spray at the rate of 1.0 kg/m² per coat. Apply the slurry in two coats, the second at right angles to the first. Second coat application should be 3-4 hours after the first dependant on temperature.

It is recommended that treated tanks and other water retaining structures are filled with water 24 hours after application of the second coat. Structures should remain filled for at least 7 days to facilitate crystal growth, which is accelerated by water pressure.

PACKAGING & STORAGE:

CHEMSEAL 20 are supplied in 20 kg bags. Store as cement in shaded warehouses away from heat, humidity or moisture. Shelf life will be 12 months.



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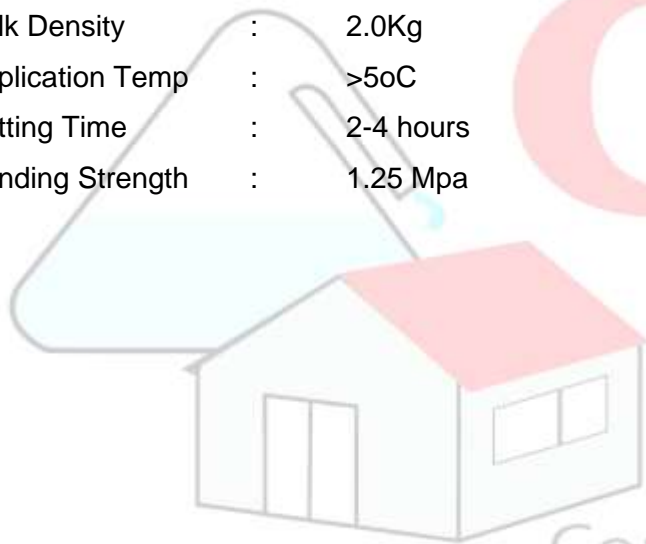
MIXING:

Mixing should be carried out using a paddle mixer. Add the **CHEMSEAL 20** to the mixer and introduce clean water at the ratio of 1 part water to 2.00 - 2.25 parts **CHEMSEAL 20** by volume. Thoroughly mix to achieve a brush able consistency. Mix only sufficient material that can be used in 30-40 minutes. Do not re-temper with water.



TECHNICAL INFORMATION:

Supply Form	:	Powder
Color	:	Gray
Bulk Density	:	2.0Kg
Application Temp	:	>5oC
Setting Time	:	2-4 hours
Bonding Strength	:	1.25 Mpa



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