



ISO 9001:2000

# TAPECRETE P151

## A Surface Treatment System for protecting Concrete & Masonry

**DESCRIPTION** : TAPECRETE is an acrylic based Polymer modified cementitious composite coating system.

**USES** : Polymer in conjunction with cement provides properties to combat the shortcomings of cement particularly its poor adhesion properties, low impact strength, low flexural strength and thin section fragility.  
**TAPECRETE Polymer** adds to the potential use as well as enhances the properties of cement mortar making them excellent choice for use in new as well as renovation work.  
**TAPECRETE** is used for surface treatment, protecting, waterproofing and repairing concrete and masonry.

### UNIQUE FEATURES

\* Combines a tough, hard-wearing surface with waterproofing. Allows trapped vapours to escape thus preventing peeling and blister formation.

### OTHER FEATURES

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- \* Can be applied in uniform thickness to horizontal and vertical surfaces.
- \* Develops excellent bond to most building materials.
- \* Reduces or prevents salt penetration into concrete.
- \* Is not affected by ultraviolet light or by chemicals ranging from mild acids to strong alkalis.
- \* Is highly durable in continuous wet condition.
- \* Is non-flammable and does not give off toxic gases, when exposed to fire.
- \* Will not rot or corrode.
- \* Most properties improve with age.
- \* Is not harmful to the health of workmen.

### APPLICATION

**Surface Preparation** : Prior to application of **TAPECRETE**, surface must be prepared as mentioned below to avoid failure:

- \* The surface shall be cleaned to remove all dust, foreign matters, loose materials or any deposits of contamination which could affect the bond between the surface and the **TAPECRETE Coating**.
- \* This can be done by scarifying, grinding, water blasting, sand blasting, acid washing or by any other approved method.
- \* New flat surface like sub-base concrete shall be made reasonably smooth so as not to impede the application of **TAPECRETE Coating** and to avoid sharp projections.
- \* All concrete surfaces shall be thoroughly pre-wetted for at least one hour prior to the application of **TAPECRETE coating** by pouring water on flat surface or by vigorously spraying water on vertical/inclined surfaces.
- \* When placing **TAPECRETE Coating**, water should be removed so that surface is only damp. In no case there should be standing water or a shiny wet surface.
- \* Depressions are filled and leveled using **TAPECRETE fillers**. For filler, the mixing ratio is 1 kg cement:1.5 by silica sand and 0.52 kg **TAPECRETE**.

**TAPECRETE** Polymer is mixed with neat cement in the ratio of 100 kg cement:50 kg of **TAPECRETE**. The mix has to be stirred thoroughly until no air bubbles remain in the mix. Any lump found in the mix should be removed.

The mix has to be applied by brush on rendered and/or prepared surface. Two or more coats are recommended. First coat should be allowed to stir dry for 5-6 hours. The surface should be made wet before application in case of porous structures.

**TAPECRETE POLYMER IS IDEALLY SUITED FOR:**

- \* Waterproofing of basements, toilets, terraces, roofs, swimming pool, water tower etc.
- \* General concrete repairs.
- \* Protection of concrete against corrosion, salt attack etc.

**CURING**

- : TAPECRETE System** must be applied with temperature above 10°C and below 35°C. During the first 12 hours of curing, it must be protected from abrasion, rain and other adverse conditions.
- No traffic shall be allowed on a **TAPECRETE** treated surface within 48 hours after application.
- After application of final coat of **TAPECRETE**, initial air drying shall be done for 2 – 6 hours. During this period no water is to be used for curing. In case of high temperature and low humidity combined with high wind condition, the coating shall be covered with polythene sheet to avoid rapid drying of the coating. After maximum period of 6 hours the final application moist curing shall be done for the next 24 hours by way of spraying water on **TAPECRETE COATING**. During this period at no point of time should the **TAPECRETE** coating be left completely dry or submerged in water.
- Following moist curing, the **TAPECRETE** coating shall be allowed to air dry for 3 days before submersion in water if required for use.

**COVERING CAPACITY :****TAPECRETE COATING/SLURRY****Mix Proportion : 100 kg cement : 50 kg TAPECRETE Polymer**

Material	1 coat on concrete	2 coat on concrete
	Kg/m <sup>2</sup>	Kg/m <sup>2</sup>
Cement	0.488	0.730
P-151 Polymer	0.244	0.365

**TAPECRETE BRUSH TOPPING**

Material	Quantities of Material in kg for	1.5mm thick
	One cubic meter	1 sq.m.of 1.5mm thickness
Cement	858	1.30
P-151 Polymer	446	0.670
Fine Silica Sand	858	1.30
Total Weight in kg	2162	3.27

**SHELF LIFE**

- : 12 months** if unopened

**PACKING**

- : 1 Kg, 5 Kg ,20 Kg. & 50 kg Container**

**PRODUCT INFORMATION**

- : Although the basic formulation of our products generally remains unchanged production refinements arising from continuing research and evaluation program may occasionally results in marginal changes in properties.**

**TECHNICAL SERVICE**

- \* **CICO** maintains a technical division with highly qualified Technical Personnel to investigate and advise on subjects related to concrete and the construction industry. The Division will advice on the correct use and selection of right products at the right place.
- \* **CICO** undertakes Consultancy Service for diagnosis and rehabilitation of distressed structures
- \* **CICO** undertakes jobs as a package for total waterproofing system with guarantee

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