

PRODUCT DATA SHEET

PRI FLEX 2K



Two Pack Specialize Binder Waterproof Coating

PRI FLEX 2K is a two-component binder & acrylic flexible water proofing & protective coating system composed of specialize binder cement with high performance additives & acrylic emulsion polymer. It is applied to waterproof and protect concrete and similar structures. Specially formulated for swimming pools, retaining walls, pile heads, water tanks, submerged tunnels, sumps, bridge decks, marbles, granites and a wide variety of extreme service class structures because on curing it forms and excellent elastomeric, waterproof & protective layer over the substrate.



AREAS OF APPLICATION

PRI FLEX 2K can be applied to new or old concrete structures that are structurally sound and strong.

- Basement retaining walls.
- Pile Heads.
- Structural surfaces of cellars.
- Concrete roof slabs, floors, balcony floor slabs.
- Water tanks and swimming pools.
- Bridge decks.
- Canals and dam walls.
- Structural surfaces of dykes.
- Suitable for steam room waterproofing.
- Sewage treatment plants.
- Waterproof coating (bottom coat) for marble, granite and other natural stones.
- For special applications such as areas where more thick plaster application is needed.

FEATURES & BENEFITS

- **Flexibility**
Provides a flexible & low permeable coating.
- **Water permeability**
Excellent resistance to ingress of water.
- **Waterproof**
Waterproof for concrete structures.
- **Slip resistance**
Provides slip resistant coating.
- **Adhesion**
Excellent adhesion to concrete, natural stone.
- **Diffusion**
Excellent resistance to chloride ion diffusion and carbon dioxide.
- **Low temperature resistant**
Resistant to freeze-thaw cycles and de-icing salts.
- **Carbonation**
Prevents carbonation of cement concrete.

METHOD OF APPLICATION

Surface Preparation

- The surface must be strong & free from dirt, dust & loose particles. Thoroughly wire brush the surface & clean the dust by air compressor or wash the surface with water.
- Oil & grease must be removed using degreasing solvents.
- Any damaged surface must be repaired by using polymer modified repair mortar.

Mixing

• Shake well the liquid component to a homogeneous milky colour, before mixing transfer entire quantity of liquid component into a suitable clean mixing vessel, gradually start addition of powder component under constant mixing with a stirrer using a pneumatic or electric power tool (1kw) at slow speed at 250-300 rpm for 3-5 minutes to a homogeneous & uniform free flowing slurry.

APPLICATION

• Binding Coverage

- Apply slurry coat of mixed material for two coats at a coverage rate of 1.5 kg/m² over the set concrete slab by a masonry brush or appropriate power spray equipment.

• Concrete slabs or roof slabs

-Two coat of mixed slurry to be applied to the set concrete 1.5 kg/m² by a masonry brush, roller or appropriate power spray equipment.

• Pile Heads

-Two coats of mixed slurry to be applied on to the pile head @ 0.75 kg/m² first coat and 1.25 to 1.5 kg/m².

-Second coat either by a masonry brush or appropriate power spray equipment.

• Water tanks and Swimming Pools

- Two coats of PRIBOND'S PRi FLEX 2K applied @ 1.5 kg/m² each coat by a masonry brush or an appropriate power spray equipment.

- All applications where two coats is specified, the second coat shall be applied when the first coat is completely dried.

- The treated area should be protected from direct sunlight and to be damp cured by covering with damp hessian or similar.

• Marbles / Stones

- It is recommended to apply one coat at the bottom side of the marble @ 1.5mm thick at a coverage of approximately 1.8 or 2kg/m²

PRECAUTIONS & LIMITATIONS

- Mix the entire quantity of both the components at one go.
- Do not use powder with the liquid other than the powder accompanied with liquid, it will affect the Performance.
- Do not add water and cement for dilution.
- Do not flood or overexpose the treated surface to water until it is completely cured.

TECHNICAL INFORMATION

PROPERTIES	SPECIFICATION	RESULTS
Nature		Two components
Appearance of mix		Free Flowing
Colour		Light Grey
Sp. gravity @ 25oc, g/cc		1.75-1.85
Toxicity	BS 920 part 1:2000	Non-toxic
Abrasion resistance, cm/km		0.1
Rapid chloride permeability - reduction in chloride ion penetration, %	ASTM C 1202:1997	90
Hydrostatic (positive) water pressure resistance, bar	DIN 1048	8
Hydrostatic (negative) water pressure resistance, bar	DIN 1048	4
Ponding test, Hrs		48

COVERAGE

- Approximately 1.5-2 kg/m² @ 1 mm thickness for 2 coats.
Coverage depends on the substrate level.

PACKAGING

15 Kg (10 Kg Binder + 5 Kg Emulsion)

STORAGE & SHELF LIFE

Storage

- Store under cover away from direct sunlight and protect from extreme temperature
- In hot temperature conditions, it must be stored in a temperature-controlled environment i.e., less than 30°C.

Shelf Life

- Shelf Life is 18 months from the date of manufacturing.

HEALTH AND SAFETY

- PRiBOND is alkaline and should not come into contact with skin or eyes.
- Avoid inhalation of dust during mixing.
- Gloves, goggles and dust masks should be worn.
- Any contact to eyes should be washed immediately with clean water and seek medical advice.