

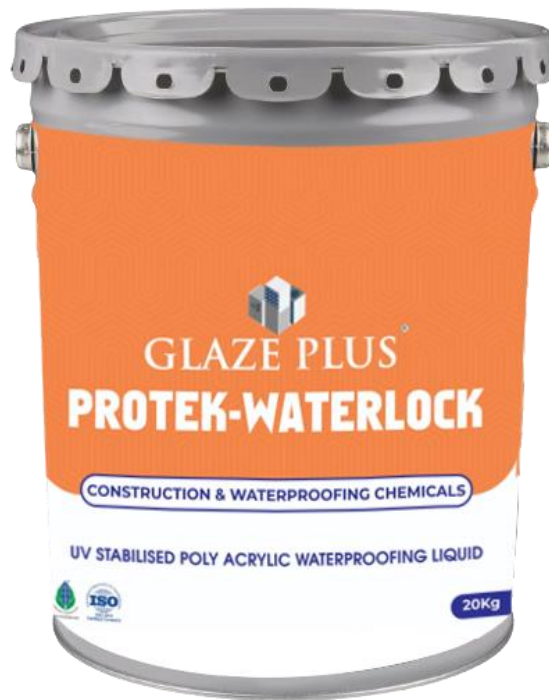
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GLAZE PLUS

TECHNICAL DATA SHEET

PROTEK-WATERLOCK

PROTEK-WATERLOCK



DESCRIPTION

PROTEK-WATERLOCK is a multifunctional polymerised acrylic polymer with 47% solid contents for enhancing properties of concrete, mortar, grout, cement slurry etc. through better bonding, waterproofing and improvement in several other properties. PROTEK-WATERLOCK is used for permanently bonding plaster to ensure durable finish of exterior walls, bonding new concrete to old concrete, making mortar for repairing and for waterproofing. PROTEK-WATERLOCK is highly durable in wet condition as well.

APPLICATION

- Waterproofing of roofs, walls & water storage tank.
- Waterproofing of toilet sunken slabs, kitchen, balconies and chajjas in high end building.
- Repairs spalled concrete, floor columns, beams, chajjas, slab etc.
- Bond coat for old to new concrete & masonry plaster.
- Priming of reinforced concrete.

ADVANTAGES

- Improves waterproofing properties when used as a coating mixed with cement.
- Contains no chloride.
- Provides excellent bond to concrete & masonry plaster.

- Improves tensile, flexural and compressive strength as compared to control concrete hence increases the durability of structures.
- Easy to use.
- Improves bond strength, facilitating tough and hard wearing surface.
- Allows trapped vapour to escape thus preventing peeling / blistering.
- Reduces cracking through increased mortar flexural strength and reduced permeability.
- Increases mortar, wear resistance under rubber wheeled traffic and improves mortar tensile strength.
- Non-flammable and does not give toxic gases when exposed to fire.
- Not harmful to health of workman.

APPLICATION MEDHODOLOGY

Appearance	Milky white liquid
Pot life	60
Compressive strength, N/mm ²	10 – 13 at 7 days
Adhesion strength to concrete, N/mm ²	38
Chloride content	NIL
pH	7.7

APPLICATION MEDHODOLOGY

➤ Surface Preparation

- Ensure that structure is at least 3 days old, sound and free from dirt, soil, oil release agents, laitance and any other foreign materials which may impair the bond, penetration and / or the overall performance of PROTECK-WATERLOCK. Do not etch with acid.
- Remove chemically any efflorescence, form oil, mould etc.
- Ensure to fill cracks / honeycombs / holes / faulty construction joints with mortar made of PROTEK-WATERLOCK, cement and super fine sand in the ratio 1: 1:3 and allow it to touch dry.
- Pre-wet / dampen all prepared concrete surface before application of PROTEK-WATERLOCK. Do not allow standing water.

➤ Slurry Preparation

- Mix PROTEK-WATERLOCK with neat cement in the ratio as shown in table below till obtaining homogeneous, lump free mixture with better brushable consistency:

Application	SC:W:C:S	Dilution in Water	Application	Area Coverage (SqM/Kg)	Strength (Kg/cm ²)		
					Compressive	Flxural	Bond
Waterproofing coating	1:Nil:2:Nil	No dilution	Waterproofing coating	2.5 Thickness approx. 1 mm (2 coats)	-	-	-

Cement slurry / Bond	1:Nil:2:Nil	No dilution	Bonding coat	2.5 Thickness approx. 1 mm (2 coats)	285	6	7.5
Mortar	1:Nil:2:5	No dilution	Polymer repair mortar	2.25 Thickness 2 mm (1 coat)	405	85	7.8
Concrete	Add SC upto 10% by wt of cement in cement paint	As required	External coating for bonding	-	NA	NA	Depending on mixed design
Additive to cement based paint	Add SC upto 10% by wt of cement in cement paint	As required External coating for bonding	As required	-	NA	NA	Depends on paint properties

➤ **Waterproofing Compound**

- PROTEK-WATERLOCK slurry by brush on the surface. Apply two or more coats depending on the surface condition.
- Ensure time interval of 5-6 hr between two coats.
- Do not apply slurry coat on standing water.
- After 6 hrs of air drying the coated surface should be cured by means of spraying water for next 24 hr.
- Do not leave coated surface dry during this period. Do not allow the coated surface to be submerged under water during this period.
- Allow to dry for 24 hrs after moist curing. Do not apply water through a hose or pressurized nozzle.

➤ **Bonding Agent**

- Bond coat with a mixing ratio of 1:1 by volume (PROTEK-WATERLOCK : Cement).
- The applied bonding agent should be in tacky condition before topping with new concrete.

➤ **As an Additive for Floor Screeds & PCC**

- For patching repair mortar or render, mix Cement : 50kg, Sand 75kg, 6mm downsize aggregates 75Kg PROTEK-WATERLOCK 5kg & Water 15 - 20Ltr

➤ **As a coating for Reinforcing Steel Priming**

- Apply one coat of PROTEK-WATERLOCK mixed cement slurry (1:1 by volume) to all exposed steel reinforcement and allow it to dry.
- A Second coat application is also recommended.

- Ensure surface is thoroughly soaked with clean water prior to application of PROTECK-WATERLOCK.
- Apply PROTECK-WATERLOCK with brush or rollers on the substrate and avoid ponding and remove any excess material.
- Repair or topping application should be carried out whilst the primer is still tacky.

CLEANING & MAINTENANCE

Clean tools and equipment with water before the material hardens.

PRECAUTIONS

Provide 15 – 25 mm protective plaster / screed over the PROTEK-WATERLOCK membrane

HEALTH & SAFETY

- Avoid contact with skin / eyes, and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapor.
- Wear suitable protective clothing, gloves and eye protection.
- In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of contact with eyes, wash immediately with plenty of clean water and seek medical advice.
- If swallowed seek medical attention immediately. Do not induce vomiting.

PACKAGING: 1Kg, 5kg, 10Kg and 20Kg

STORAGE

Store in a cool dry place, under shed, away from heat.

SELF LIFE

12 months in original unopened condition.

TECHNICAL SUPPORT

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