



Chemical Industries Ltd.

SN-PROTECT 2K

Polymer cement waterproofing solution

DESCRIPTION

SN-PROTECT 2K is an acrylic cementitious, polymer-modified elastomeric, waterproofing & protective coating composed of best quality Portland cement, properly selected & graded aggregates, additives & acrylic emulsion polymer as a binder. It is applied to waterproof and protects concrete and masonry substrates

SN-PROTECT 2K is in compliance with:

Bureau Ventas Portability test for used in drinking water reservoirs or tanks.

Surface Spread of Flame test:- BS 476:Pt.7:71(Class 1)

FIELDS OF APPLICATION

SN-PROTECT 2K is designed to be used as an

effective waterproofing membrane on a variety of substrates.

Applications include:

- waterproof coatings to the internal faces of water tanks, sumps, reservoirs, planter boxes etc., before tiling or other surface finishing.
- treating terraces, balconies, kitchen & toilet floors as a sandwich treatment, to prevent water ingress.
- treating bridge & flyover decks before wearing course to protect concrete from rainwater ingress.

FEATURES AND BENEFITS

- Elastomeric – elastomeric flexible coating that accommodate cracks up to 2 mm with an elasticity of 40-50%
- Low water permeability – excellent resistance to ingress of water
- Adhesion – excellent adhesion to concrete and masonry surfaces
- Eco-friendly – Non-toxic with low VOC content
- CFTRI certified – as a “potable water safe” coating for waterproofing for water tanks

Water Penetration Test : <0.1mm
(0.5kg/cm²)

Coefficient of Permeability : 2.27×10^{-13} m/s
(0.3kgf/cm²)

QUV Accelerated Weathering Test : Gray Scale 4-5
(ASTM G53:93, type A)

(1000 hours) & (2000 hours)

Note:

Gray Scale 1 denotes severe discolouration and Gray Scale 5

denotes mild or no discolouration.

PROPERTIES

	Part A	Part B
Supply form	Liquid	Powder
Colour	White	Grey
Working time		
@ 20°C	: 1 hr (approx.)	
@ 30°C	: 0.5 hr (approx.)	
Application temperature:	> 5°C	

APPLICATION

Surface Preparation

Correct substrate preparation is critical for optimum performance. Surfaces should be structurally sound, clean, and free from loose particles, oil, grease, or any other contaminants.

Cement laitance, loose particles, mold release agents, curing membranes, and other contaminants must be removed by wet grit blasting, high-pressure water jetting (approx. 150 bars), or such other effective methods.

Fill surface irregularities such as blowholes, honeycombs, etc., with EMACO repair mortars to achieve a smooth and level surface.

Saturate the prepared substrate with clean water before applying SN-PROTECT 2K.

Mixing

Mechanical mixing is necessary. A slow speed (600 rpm), heavy-duty electric drill with a wing-type paddle is recommended. Place approx. 75% of Part A of the pack in a clean pail. Keeping the mixer running, add Part B slowly. Mix for at least 3 minutes to get a lump-free homogenous mix. While continuing to mix, add all of the remainders of Part A if applying on a horizontal surface, or a part of it if applying on vertical surfaces till the required consistency is obtained.

Placing

It is extremely important that the area being treated is shaded from direct sun rays and wind to prevent rapid drying of the coating.

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CURING

Slow drying of **SN-PROTECT 2K** membrane ensures homogenous curing and high waterproofing characteristics.

SN-PROTECT 2K must be protected against rapid drying due to high temperatures or wind. Curing by wet burlap, polyethylene sheet or a curing compound such as MASTERKURE 181 is recommended.

Note: Worm - gear type of sprayers do not normally have a mixing arrangement. Therefore, material has to be mixed separately and fed to the spraying machine.

CLEANING

Clean tools and equipment with water, before the waterproofing coating hardens.

ESTIMATING DATA

The recommended coverage of **SN-PROTECT 2K** is 1 kg/m² per coat to obtain an approximate wet film thickness of 0.8 mm (± 0.08 mm).

Actual coverage depends upon the method of application, the texture and porosity of the surface. Therefore, material requirement is approximately 2 kg/m² for a total dry film thickness of 1 mm (± 0.1 mm) in two coatings.

Note: Avoid using part packs.

Use only mix of complete pack.

PACKAGING

Packing Size kg: 20kg and 40kg sets.

Two components:

Part A: Latex and Part B Powder.

SHELF LIFE

SN-PROTECT 2K can be kept for 12 months from date of manufacture if stored in tightly sealed original packaging, in dry and cool enclosed area.

PRECAUTIONS

For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

Self-life 18month



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