

CEMEK-Pro2K2011

Product Technical Data Sheet

2K High Strength, Rapid Set PU for grouting.

Application Process

Description

CEMEK-Pro2K2011 is two components (part A) and a (part B) polyurethane highly reactive, excellent mechanical strength and chemical resistance resin. Specially formulated for waterproofing and consolidation of rocks, friable land and structures affected by high-pressure water, as well as to convey water in aquifers and fill big voids and cavities. When mixed, a hydrophobic polyurethane foam is formed which is tough, rigid and resistant to a wide range of chemicals. **CEMEK-Pro2K2011** reacts rapidly enabling the product to cut off large water leaks.

Components A and B of **CEMEK-Pro2K2011** are delivered ready-to-use. They are injected in the ratio of 1:1 by volume using a two-component injection pump equipped with a static in-line mixer.

Note: The curing reaction time will vary depending on the temperature of the **CEMEK-Pro2K2011** resin, the rock and the ground water. Both components should be stored above 15°C prior to application. To achieve thorough mixing of the resin & catalyst during injection, use of a static in-line mixer in connection with the mixing head is essential. The length of the static mixer should be at least 50 cm long.

Features

- ❖ High foam strength
- ❖ Rapid reaction
- ❖ Good bond strength
- ❖ Low viscosity
- ❖ Solvent free, Eco-Friendly and safe.

Uses

- ❖ Extreme water ingress
- ❖ Large voids & Cavities
- ❖ Foundation stabilization

Product Information

Although the basic formulation of our products generally remains unchanged, production refinements arising from continuing research and evolution program may occasionally result in marginal changes in properties.

Important

The above stated properties are based on our standard product, **CEMEK-Pro1K165**. The product may change with some code as suffix or addendum to the principal or original name indicative of some minor adjustment and fine tuning in the formulation to meet a specific requirement of the user or due to our continuous research and development but shall exhibit similar properties.

Technical Data

Pack A		Pack B	
Colour	Brown	Colour	Opaque
Density	1.12 Kg/m ³	Density	1.10 Kg/m ³
Mixing Ratio (A: B) 1:1			
Colour	Brown		
Mix Density	1.10 Kg/m ³		
Final Cure at 27±2°C	24 Hours		
Viscosity at 27±2°C (Brookfield Viscometer)	200-250 MPas		
Elongation at break (%)	3-4		
Expansion	upto 15 Times		
Slant Shear Bond Strength (MPa) BS6319-4	15 MPa Max		
Toxicity	Cured material nontoxic in Nature		
Shelf-Life	06 Months		
Reaction Time 27±2°C	15-20 Seconds		
Rise Time	30-40 Seconds		
Tack free Time	50-60 Seconds		
Note: - All technical data stated herein is based on tests carried out under laboratory conditions.			

Storage

CEMEK-Pro2K2011 should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of one year can be expected.

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Health & Safety

CEMEK-Pro2K2011 should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Health Safety data sheet is available upon request from CEMEK (I) PRIVATE LIMITED representative.

Product Information

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Technical Support

Our technical support team assist you in application of right products at right place, our team will also assist in: -Support on location, Test work and On-site training

Shelf Life

06 months, if kept unopened.

Storage

Keep it in a cool place.

Packing

Product is available in 25 Kg MS containers

FIRST AID!

- ❖ Eyes and skin: Flush eyes with water for 15 minutes. Contact a physician if irritation persists.
- ❖ Wash skin thoroughly with soap and water. Remove and wash contaminated clothing before reuse. Inhalation: Remove subject to fresh air. Swallowing: Dilute by giving water to drink and contact a physician promptly.

- ❖ Never give anything to drink to an unconscious person.

Note: - Keep out of reach of children for professional and industrial use only.

Products Range of CEMEK

- ❖ Alkali Free Accelerator for wet Shotcrete in Liquid form
- ❖ Alkali Free Accelerator for Dry Shotcrete in powder form.
- ❖ Modified Sodium Silicate based accelerator for Shotcrete.
- ❖ Integral Water Proofing Compound.
- ❖ Crystalline Water Proofing Compound.
- ❖ Heat Resistance Coatings/Paints with application
- ❖ Cement, Micro Fine Cement, Epoxy, PU and Colloidal Silica based grouts with application.
- ❖ Wax Based, Resin Based and Resin Based Aluminized Concrete Curing Compound.
- ❖ Ready to use High Strength, Rapid Set, Non-Shrink, Self-Levelling, Crack Repair, Heavy Duty Machine Installation product.

Services

- ❖ Water Proofing (Epoxy, PU, Acrylic, SBR etc.)
- ❖ Dry & Wet Shotcrete
- ❖ Crack Repairing
- ❖ PU, Epoxy, Polyester Grouting (Tunneling & Mining & Structures)

House, Industrial & Institutional Cleaners

- ❖ Steelness Steel Cleaner
- ❖ Degrease & Oil Removers
- ❖ Paint & Coating Striping Agents
- ❖ Concrete Removing Agents
- ❖ Tar Removing form car body
- ❖ Rust Removing Agent
- ❖ Rust Converter

Ref.: - CEMEK/APU/18/001

Rev.: - Nil

Date: -01/01/2018

Date: - Nil

CEMEK (I) PRIVATE LIMITED

(An ISO 9001:2015 Certified Company)

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