

EALSTOSEAL 2K PU

COLD APPLIED POLYUREA COATING



DESCRIPTION

EALSTOSEAL 2K PU is two component, fast curing, cold applied, polyurea based liquid waterproofing membrane and protection on wide range of substrates. It can be used for both vertical and horizontal applications. It has good adhesion, elasticity and resistance to environmental conditions.

FEATURES AND BENEFITS:

- Excellent adhesion on concrete and steel substrates.
- High bond strength even without primer.
- Hydrophobic and hydrolysis resistant.
- Wide service temperature range -40°C to 90°C.
- Cold applied and self levelling.
- Fast Curing
- Excellent Mechanical properties with high tensile, elongation and tear enabling expansion and contraction with the substrate, eliminating the possibilities of cracking /brittleness
- Solvent & VOC free
- Can be applied both vertically and horizontally

BASIC USES

EALSTOSEAL 2K PU is recommended for all types of waterproofing and dampproofing applications. These include:

- High durable waterproofing membrane with elongation >600% with strong adhesion to many type of surfaces.
- Waterproofing roof, exterior walls, foundations, basements or other structures that are to be backfilled.
- Waterproofing inside planter boxes.
- Waterproofing under shower pans, kitchen, laundry and bathroom floors.
- Waterproofing of swimming pools, tanks.
- Waterproofing of areas under malls, plazas and promenades
- Waterproofing of those areas which are subjected to expansion and contraction.

EALSTOSEAL 2K PU is completely non-toxic in its cured state. The coating fills and covers cracks and because of its flexibility, allows it to move with changes in temperature. The product is firmly bonded to substrate so water cannot flow underneath the lining as it does with sheet lining materials. For immersed conditions, Elastosopoxy primer HP is recommended as a primer.

DIRECTIONS FOR USE

Surface preparation:

All surfaces should be clean, dry and free of all laitance, cured membrane, grease, oil and other loose and flaking particles. Concrete surfaces should have a light steel trowel followed by a fine hair broom or equivalent finish which is dry and free from foreign matters. All high spots should be removed. Concrete surfaces which are subjected to immersion condition must be blast cleaned, and should be primed with Elastosopoxy primer HP.

Mixing

The two components should be mixed thoroughly by mechanical means (use a slow speed, heavy duty mixer). The mixing can be carried out in the PART A container. PART B should be added while stirring/agitating the PART A. Mix thoroughly until the mixture becomes uniform before application.

Application

EALSTOSEAL 2K PU can be applied with roller, brush, or airless spraying in one or two coats. Do not exceed more than 36 hours between coats.

Pot Life

When the two components are mixed **EALSTOSEAL 2K PU** has a pot life of about 15-25 minutes at 25°C. The pot life depends upon the climatic condition and temperature. Once gelled the coating should not be used for further applications.

Cleaning

Clean tools and equipments with XYLENE or MEK.

COVERAGE	Theoretically, ELASTOSEAL 2K PU covers 1 sqm/ltr at 1000 micron dry film thickness.
PACKAGING	Available in 10 liter kits
COLOUR	ELASTOSEAL 2K PU is available in white & grey.

Maintenance

If **ELASTOSEAL 2K PU** is damaged it can be repaired by cleaning the surface and recoating the damaged areas with **ELASTOSEAL 2K PU**.

STORAGE AND HANDLING:

ELASTOSEAL 2K PU has a shelf life of 12 months when stored in the original unopened pails, in dry places and at temperatures of 10-38° C. Do not open containers until ready to use the materials

PRECAUTIONARY NOTE

- The substrate should not contain any traces of water. Any water present should be removed at least 24 hrs prior to application and the substrate should be substantially dry.
- Application should not commence if the temperature is below 5°C, contact CMCI technical department for assistance.
- After the mixing of two components the material should be used within the gel time.
- The material should not be thinned.
- Not recommended to be exposed to direct sunlight.
- If used as roof coating, ensure that it is covered by suitable protective top coat.

HEALTH & SAFETY

- Keep out of reach of children. Prevent contact with skin, eyes, and clothing. Wash thoroughly after handling. Use impervious gloves and eye protection.
- Use protective clothing gloves, mask, goggles, etc.
- Avoid inhalation or contact with skin or eyes. In such events remove the person to fresh air, water with clean water over the affected area and call for medical attention.
- Smoking should be strictly prohibited during application. In confined areas of application, breathing equipment should be made available for operatives.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. Remove and wash contaminated clothing. If inhalation effects occur, remove to fresh air. If discomfort persists or any breathing difficulty occurs, seek immediate medical attention.

PROPERTY	COMPONENT A	COMPONENT B
Form	Thixotropic liquid	Liquid
Recoating time	3-7hrs	
Potlife @ 25 °C	15-25 minutes	

PROPERTY	METHOD	RESULT
Service temperature	-	-40 to 90°C
Shore A Hardness	ASTM D 2240	60-65
Elongation	ASTM D 412	<600%
Tensile strength	ASTM D 412	8 N/mm ²
Tear strength	ASTM D 624	28 N/mm
Water absorption	DIN 53495	<2.5
Solid content (by weight)	ASTM D 2939	96%
Adhesion to concrete & steel	ASTM D 4541	> 15 Kg/cm ² >1.5 N/mm ²

Quality Statement

CMCI manufactures its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products CMCI also offers full technical field support to consultants, Architects, contractors, applicators and End Users.

"High Quality Construction Chemicals"

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The Technical Specification information and recommendations given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no warranty and or responsibility is assumed on the performance of work completion executed with use of our products.