

## SOPRA 2K CEMFLEX

### Description

**SOPRA 2K CEMFLEX** is a two-component slurry-applied waterproofing membrane that is ready to use, with shrinkage compensating mechanism. Applied by brush or (short hair) paint roller, **SOPRA 2K CEMFLEX** possesses excellent flexibility and UV resistance which allows it to be left exposed on non-trafficable roof slabs and parapet walls. **SOPRA 2K CEMFLEX** is safe for use in applications where it will be in direct contact with portable (drinking) water.

### Recommended Uses

**SOPRA 2K CEMFLEX** is suitable for the following applications:

- Showers
- Internal wet areas
- External decks
- Planters
- Exposed concrete rooftops
- Reservoirs & Water retaining structures
- Swimming pools
- Terraces

### Features and benefits

- Applied above or below grade.
- Solvent free (Low VOC).
- Breathable, water vapor preamble.
- Resists strong hydrostatic pressure.
- Safe for portable water.
- Does not support the growth of mold & mildew.
- Waterproof, suitable for water retaining structure and basements.
- Suitable for internal and external applications.
- Elastic properties
- UV resistance properties

### Packaging

**SOPRA 2K CEMFLEX** is available in 25kg moisture resistance bags and 10Ltr polymer resin.

### Storage

**SOPRA 2K CEMFLEX** has a shelf life of 12 months. Store away from direct sunlight, protected from rainfall.

### Properties

<b>SOPRA 2K CEMFLEX</b>	
<b>Dry Powder Component-A</b>	
Appearance	Grey/White Powder
Bulk Density	1600 kg/m <sup>3</sup>
<b>Liquid Component-B</b>	
Appearance	White/Milky liquid
Density	1060 kg/m <sup>3</sup>
PH	7.5-8

### Technical Information

<b>SOPRA 2K CEMFLEX</b>	
Density of wet mix	1900 kg/m <sup>3</sup>
Pot life (approximate)	45 mins @ 25°C & 60% RH
Application Temperature	+5° C to +35° C
Service Temperature	-5° C to +45° C
Elongation at rupture at 2 mm thickness (ASTM D-412-98a)	60% at 23° C
Crack Bridging Capacity	1.2 mm
Water Permeability: (2 mm thickness)	No measurable leakage up to 90 psi (65m head pressure (positive side)).
Tensile Strength @ 2 mm thickness: (ASTM D-412-98a)	3.2 MPa@ 28 days at 23° C
Adhesion to concrete: (ASTM C-297 modified)	1.2 MPa@ 28 days
Chloride Permeability	Chloride Penetration:
• Untreated control:	3450 Coulombs
•(2 mm) thickness:	714 Coulombs
Percentage Reduction:	79% (ASTM C-1202.97)

## Application Instructions

### a) Surface preparation

The concrete surface should be free of frost, curing membranes, oil stains, grease, paint and dust. The surface in which **SOPRA 2K CEMFLEX** should be chipped and water leakage should be drained and plugged before application. The area in which it will be waterproofed should be soaked with water a couple of times 24 hours prior to coating to minimize absorption and clean the substrate from any contaminants. The surface should be damp but free of standing water.

### b) Mixing

First place the Liquid component (Component B) in a clean drum. Slowly add 2/3 of powder bag (Component A) of **SOPRA 2K CEMFLEX** into the liquid and continuously mix for 2 minutes to achieve a smooth, uniform and lump free consistency. Add remaining 1/3 powder and mix total 2 - 4 minutes with a strong, slow speed (300 rpm) mechanical mixer.

### c) Application

**SOPRA 2K CEMFLEX** should be applied within 45 minutes after mixing. Apply the mixed material onto the prepared surface using a longhaired brush or roller. Apply at least two coats in different directions to seal any pores and micro cracks. Apply second coat after the first one is dry, at perpendicular to the previous coat. Prevent the material from building up too thick in one application.

### d) CLEANING OF TOOLS

Tools and application equipment should be cleaned with water immediately after use. Hardened material can only be mechanically removed.

## Precautions

**SOPRA 2K CEMFLEX** is non-hazardous but should not be swallowed or come in contact with skin or eyes. Wear protective glasses and gloves during application. In case of contact with eyes, rinse immediately with clean water and seek medical advice if irritation occurs. Wash off skin contact immediately with clean water and soap. If swallowed, seek medical emergency immediately.

## Technical Support

**Sopra** provides on-site assistance and consultation services on projects if required. Technical Datasheets on other **Sopra** products and guidance on their use are available on request or on our website.

## Warranty

The information provided about the application and end-use of **Sopra** products is based on our current knowledge and experience of the products when properly stored, handled and applied under normal condition in accordance with **Sopra** recommendation. In practice, the differences in substrates and actual site conditions are such that no warranty in respect of sale for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user must test the product to ensure its suitability for the intended application and purpose. The company reserves the right to change the properties of its products without prior notice.