



## Top Fix CR 117-2K

### Product Description

It is a two-component chemical material used in both passive and active waterproofing. The material interacts with the concrete to form crystalline crystals that block the capillary pores of the concrete.

### Product uses:

- In the waterproofing of horizontal and vertical surfaces, negative or positive.
- In the waterproofing of underground and above ground structures>
- It is used in the waterproofing of concrete, plaster and screed.

### Properties

- Resistant to positive and negative water pressure
- In addition to crystallizing into the concrete, it creates a flexible and resistant layer on the surface and thus provides two-stage protection.
- It has two components. (formed by mixing powder component and liquid component) The mixture is applied by spreading.)
- It is hygienic and suitable for use in waterproofing of drinking water tanks.
- It does not contain soda and chloride, it protects the reinforcement in concrete against corrosion.
- It is capillary effective.

### TECHNICAL PROPERTIES

<i>Appearance/Color</i>	Matt / Gray
<i>Consistency:</i>	Thixotropic mortar
<i>Apparent mass volume:</i>	1.65±0.05 kg/ltr
<i>Open time:</i>	≈ 30 [min]
<i>Application temperature:</i>	+5° to +30° [C] / +41°to +86° [F]
<i>Service Temperature:</i>	-20 to +80 ° C
<i>Consumption:</i>	3-4 kg/m <sup>2</sup> (average 2-2.5 mm thickness) First Coat; 1.60kg/m <sup>2</sup> Second Coat; 1.40kg/m <sup>2</sup> Third Coat; 1 kg/m <sup>2</sup>
<i>Setting time (20°C):</i>	6 hours first setting, 24 hour final setting
<i>Resistance to water pressure(positive)</i>	13 Bar
<i>Resistance to water pressure(Negative)</i>	13 Bar
<i>Adhesion to concrete:</i>	> 2 N/mm <sup>2</sup>
<i>Compressive strength (28 days):</i>	27 N/mm <sup>2</sup>
<i>Flexural strength (28 days):</i>	10 N/mm <sup>2</sup>
<i>Capillary absorption and water permeability:</i>	≤ 0.1kg.m <sup>2</sup> .saat <sup>0'5</sup>

# Technical Data Sheet



## Application Details

<i>Application method:</i>	Brush or airless machine
<i>Thinner:</i>	5-6 ltr of water is added to liquid material
<i>Cleaning of tools:</i>	Fresh water
<i>Packing:</i>	25 kg Powder + 3 kg liquid

## Surface Preparation

- The surfaces to be applied must be damp, dry surfaces must be moistened before application. Without moisturizing 1 day before and again 2 hours before the surface was fully saturated with water. Care should be taken to ensure that there is no water accumulation on the surface.
- Before applying the product, the surface should be cleaned from dust, oil, paint, curing agents, etc., which have nothing to do with the structure and do not penetrate. It must be cleared of any obstructive substances.
- Where necessary, the surface should be roughened to ensure adhesion.

## Mixing

- 3 kg of component B (liquid) and 5-6 liters of clean water are mixed in a suitable container. During mixing, component A (powder) is added continuously and slowly to the liquid mixture.
- After adding one bag (25 kg) of powder ingredient, start the mixing process. It should be continued for at least 3 more minutes.
- The mixing process must be done thoroughly with a low speed mixer. This should continue until homogeneity is achieved.

## Application

- The application is made with a brush or suitable spraying equipment.
- Application is made in 2 or 3 layers.
- The layers should be applied homogeneously and smoothly, the application should be the same on each layer. It should be done in the right direction.
- Drying should be allowed between coats (at least 3 hours), but not more than 24 hours. It shouldn't take too long.
- In case of using the product in foundation insulations layer must dry for at least 24 hours.

## PRECEDING COAT:

None

## Application Condition:

- After application, the surface should be protected from rain and dust for at least 24 hours. Should be protected from frost.
- The surface temperature should not exceed 5°C within 24 hours after application. Application should not be made in cases where it is expected to fall below.
- In high temperature environments Application should be done the morning or evening. It should be done quickly and uninterruptedly during hours, the material should be stored in the shade.
- In low temperature environments, if the temperature is below 5°C and the surface Application should be started towards noon, provided that it is not frozen. The material should be kept in a warm environment and the surface should be cleaned after application.



### ***Important Remarks:***

- Surfaces must have enough structural strength.
- Concrete should have minimum of 25 N/mm<sup>2</sup> compression resistance and minimum 1, 5 N/mm<sup>2</sup> tensile strength.
- Applications below 10°C should be avoided.
- The surface should be protected from moisture and rain for 24 hours after application.
- All application tools and equipment should be cleaned with water immediately after the use. Cured material can only be removed mechanically.
- Use only where application and drying can proceed at temperatures above: 10°C/50°F. The temperature of paint itself should be 15°C/59°F or above.

### ***Shelf life & Storage:***

12 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

### ***Safety:***

For information and precautions on the safe handling, transportation storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

### ***Legal Notice:***

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