

# eile EPX 018

## Description

Two-component, epoxy based coating material designed to protect concrete and steel.

## Areas of Usage

Indoor and outdoor places, vertical and horizontal applications.

In metal or concrete tanks.

On walls as gas and vapor barrier coating resistant to chemicals.

Oil and fuel tanks.

Energy stations, sugar factories, hangars and liquid storage spaces, drinking water reservoirs.

Oil refineries and paper mills\*.

Beer, wine and raisin industry\*.

Soft drink and fruit juice industry\*.

Milk, cheese and yoghurt industry\*.

Tomato paste and canned food industry\*.

Meat and fish industry\*.

Pharmaceutical, paint, paper, battery, fertilizer industry\*.

Printing house, hotel kitchen and laundries\*.

In hospital laboratory, dining hall, wet areas and hygienic environment.

\*shows the places where it can only be applied on the walls.

## Features

Its surface is bright.

It has antibacterial properties. It is solvent-free.

It is easy to clean for hygienic environment.

It has high mechanical strength.

It has flexibility to absorb movements on metal surfaces.

It has higher chemical strength than standard epoxy coatings.

It is easy to apply with brush, roller or by spraying.

It is waterproof. It can be used safely in water reservoir tanks.

## Operating Procedure

### Surface Preparation

The application surface should be solid, bearing, dust-free and clean. Any rust, grease, oil, paint, curing residues should be removed as they may weaken the adherence. Also remove any loose pieces on the surface. Use POMEX WATERBOND if there is active water leakage on concrete surfaces. The corners and the edges should be chamfered with at least 4cm radius of the product **eile TH 70**. For the applications to be carried on steel surfaces, remove any rust, grease, oil, paint residues as they may weaken the adherence and use sandblasting to prepare the surface. Where the sandblasting is not possible, clean with air scaling machine or cup wire brush.

## Mixing

Add the **eile EPX 018** component B into component A package slowly by mixing with a 400-600 cycle/min mixer until a homogenous mixture is achieved.

## Mixture Ratio

Component A: 4,5 units

Component B: 1 unit

## Application Method

**eile EPX 018** can be applied with a roller or with a special spraying equipment. We recommend you to apply two layers of **eile EPX 018**.

## Consumption

0,200- 0,400 kg/m<sup>2</sup> (each layer)

## Points to take into consideration

The application ground and setting temperature should be below +5 °C and above +30 °C, if the temperatures do not match these values wait until they do.

For outdoor applications, protect the surface from sun, wind, frost or rain for the first 24 hours.

The reaction times of epoxy based systems are affected by the temperatures of application settings and surfaces. Low temperatures increase reaction time and application time. High temperatures decrease reaction time and application time. So the application should be between the specified temperature values. For outdoor surface applications, protect the surface from sun, wind, frost or rain for the first 24 hours.

## Package

Set: 5,5 kg

Component A: 4,5 kg in tin buckets

Component B: 1 kg in tin buckets

## Storage

Store in its original unopened package between the temperatures +5°C - +35°C. Keep it away from direct sunlight and frost.

## Shelf Life

12 months after the date of production, under proper storage conditions and in its original unopened package.

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## Technical Specifications

<b>Structure of the Material:</b>	epoxy resin and hardener
<b>Application Time</b>	: 45 minutes
<b>Curing Time</b>	: 7 days
<b>Concrete Adherence Resistance:</b>	$\geq 2,5 \text{ N/mm}^2$
<b>Steel Adherence Resistance</b>	$\geq 2,5 \text{ N/mm}^2$
<b>Density</b>	: $1,5 \text{ gr/cm}^3$

The specified values above are nominal values in standardized formulas by **eile POMEX Structure Chemicals**. Under regular production standards, deviation predicted by international standards may occur.

## Chemical Resistance Table

50% SODIUM HIDROXIDE	+
50% SULPHURIC ACID	+
50% LACTIC ACID	+
10% NITRIC ACID	+
XYLENE	+
DIESEL OIL	+
SODIUM CHLORIDE	+
VEGETABLE OILS	(+)
TOLUENE	(+)
METHANOL	-

Signs:

+: Resistant

(+): Limited Resistance

(-): Non-resistant

**Safety Recommendations:** Please wear the coveralls, protective gloves, glasses and mask suitable for occupational health and safety. Make sure that it does not contact the skin and the eyes; in case it does, wash with plenty of water. In case swallowed, contact the closest health care institution immediately. Keep out of the reach of children. Keep food and drinks away from the application areas.

**Responsibility:** In case the recommendations and application conditions specified above are not conformed, the applications (misuse) do not fall under the responsibility of **POMZA EXPORT A.Ş.**, the producer of **eile POMEX branded products**. The user is responsible for whether the product is used in accordance with its purpose, as well as the validity of application conditions and forms. **eile Pomex Construction Chemicals** does not accept any indemnity claim concerning the results, work accidents, direct or indirect damages or losses due to the misapplication of the products.

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