

# SUFFIX EP REPAIR BOND

*Epoxy-Based Two-Component, Thixotropic Repair, Anchorage and Adhesive Mortar*

## Product Definition:

SUFFIX EP REPAIR BOND is a two-component, solvent-free, thixotropic, pasty, high-strength adhesion, anchorage, assembly and filling mortar.

## Areas of Application:

Used for fixing of injection packers,  
Placement of iron stone on concrete and stone walls,  
Anchoring,  
Adhesion of different types of materials, Assembly and adhesion of metal and steel components to concrete elements,  
Repair of concrete,  
Fixing of bridge and viaduct rails, Anchorage of bolts and pins,  
Adhesion of dilation and bevelling bands.

## Advantages:

High mechanical endurance.  
High abrasion resistance.  
Easy-to-apply thanks to its pasty characteristics.  
Provides earlier resistance.  
Provides hardening without shrinking.  
Suitable for overhead applications.  
Perfectly adhesive to concrete and steel.  
Resistant to chemicals.

## TECHNICAL INFORMATION

### PHYSICAL PROPERTIES

QUALITY (23°C, 50% RH )	VALUE	STANDARD & METHOD
Appearance	Component A: Light Gray, Thixotropic Component B: Black, Thixotropic	-
Density (gr/cm <sup>3</sup> )	Component A: 1.60 ± 0.05 Component B: 1.45 ± 0.05 Component A+B: 1.55 ± 0.05	EN ISO 2811-1
Solid Substance (wt %)	Component A: 100 Component B: 100	EN ISO 3251

Fading and changes may arise under direct sunlight; this does not have any impact on the function and performance of the coating.

## MECHANICAL PROPERTIES

QUALITY (23°C, 50% RH )	VALUE	STANDARD & METHOD
Pressure Resistance (N/mm2) (7 days)	>60	EN ISO 196
Bending Resistance (N/mm2) (7 days)	>30	EN ISO 196
Adhesion Resistance (N/mm2) (7 days)	>2	EN 1542 ASTM D 4541

## TECHNICAL PROPERTIES AFTER APPLICATION AND CURING

QUALITY (23°C, 50% RH )	VALUE	STANDARD & METHOD
Mixture Rate	75:25	-
Container Life (minute)	25	100 gr (A+B)
Touch Drying (hour)	8-12	at 23°C - 50% RH
Full Curing (Day)	7	EN ISO 868
Shore D Hardness	>75	ASTM D 2240

**Application Information:****Surface Preparation:**

The materials such as oil, wax, grease, water repellents reducing the adhesive strength and dust should be removed by cleaning with a floor milling machine. The new concrete should be poured at least 28 days ago. The surface should be undercoated before application. Concrete application surfaces should meet these standards below at least:

Hardness: R28 = 15 Mpa

Temperature: 10-30°C

Surface moisture: < 4%

**Mixture Preparation:**

Components A and B of the product are given in separate packages with their mixture rates designated. Component B is poured into Component A and then stirred. This process should be conducted by using a 300 rev/min mixer. It is a two-component product, and should be prepared depending on the mixture rate designated according to the consumption amount by considering the expiry date of mixture. Ensure that the product temperature is above 15°C to obtain a homogeneous mixture. The component A should be stirred by using a mechanical mixer in itself immediately and then the hardener (component B) should be added according to the mixture rate. The component A and B should be stirred by using a mechanical mixer for at least 3 minutes until it becomes homogeneous. Ensure that the mixture is consumed before the date of expiry.

**Application:**

The surfaces should have sufficient strength. The concrete should have 25 N/mm<sup>2</sup> pressure and 1.5-2 N/mm<sup>2</sup> tensile strength at least.

The surface should be clean, smooth and dry. The application surface's moisture rate should not exceed 5%. If it is higher, an epoxy undercoating should be used on humid surfaces.

During the applications on steel surfaces, sand blasting should be performed in the order of SA 2/5. The ambient temperatures below +10°C and above + 30°C should be avoided. During the application, the floor temperature should be at least 3°C above the dew point. The mixture rates should be

considered.

You should wait for at least 12 hours between the coats (at 20°C).

**Package:**

5 kg set SUFFIX EP REPAIR BOND;  
Component A: 3.75 kg metal can bucket  
Component B: 1.25 kg metal can bucket

**Consumption:**

1.60 kg/m<sup>2</sup> for 1 mm thickness

**Storage and Shelf Life:**

It can be stored for 12 months from the date production if it is properly stored in its original, unpacked and undamaged package in a dry place between +5°C and +30°C.

**Safety Measures:**

During the application process, the proper work clothes, protective gloves, goggles and mask should be used pursuant to the occupational health rules. The components should not come into contact with skin and eyes due to the irritating effects of the non-cured product. Wash with plenty of water and soap in case of contact. In case of swallowing, immediately see a healthcare professional. For further information, request a Material Safety Data Sheet (MSDS) from your vendor. Keep out of reach of children.

None of the instructions and technical specifications given is binding SPECIFICALLY pursuant to the protective rights of general and third persons, and it does not make you exempt from the obligation to analyze the compatibility of our products. Our company is not responsible for any loss incurred due to natural hazards or usage and/or product compatibility or information and instructions for any reason or in any scope.

