

# SUFFIX PU SEAL BT2K 10

*Polyurethane-Based, Two-Component Bitumen-Modified Joint Filling Material*

## Product Definition:

SUFFIX PU SEAL BT2K 10 is a two-component, bitumen polyurethane-based joint filling material. Cured with moisture in the air and chemical reaction. Forms a quite elastic and durable film by perfectly adhering to different surfaces. In excellent mechanical and chemical characteristics; provides high tension, tearing and wearing resistance. Resistant to heavy traffic and surface movements. Resistant to sea water, jet fuels, hydraulic materials and oils.

## Areas of Application:

Used for Airport runways, aprons and hangars, Oil and fuel-resistant applications, Highways, bridges and viaducts, Roads and concrete areas of petrochemical and other industrial areas, Track laying, Filling of horizontal joints, Filling of horizontal and vertical junctions between constructional components, Industrial floors, Indoor and outdoor spaces open to pedestrian and

traffic,

Ground fuel tanks and loading ramps, floor and junction joints, Junction joints of concrete elements with bitumen coatings, Cracks on asphalt and concrete roads.

## Advantages:

Perfectly adhesive to almost all types of surfaces, Perfectly spreading in different climatic conditions and various temperatures, opportunity to be formed by tools and retain its form. Excellent chemical resistance. Suitable for water tanks in chemical industry, 50% adaptable to joint movement. Resistant to microorganisms and fungus. Resistant to cold; Retains its elasticity up to -40°C, Suitable for painting applications, Resistant to jet fuel, oil and various chemical solutions.

## TECHNICAL INFORMATION

### PHYSICAL PROPERTIES

QUALITY (23°C, 50% RH )	VALUE	STANDARD & METHOD
Appearance	Black	-
Density (gr/cm <sup>3</sup> )	Component A+B: 1.35 ± 0.05	EN ISO 2811-1

## MECHANICAL PROPERTIES

QUALITY (23°C, 50% RH, 7 Days)	VALUE	STANDARD & METHOD
Elongation at Break (%)	>400	EN ISO 527 ASTM D 412
Adhesion Resistance (N/mm <sup>2</sup> )	>2	EN ISO 527 ASTM D 412
Adhesion Resistance (N/mm <sup>2</sup> )	>1.5	EN 1542 ASTM D 4541
Surface Hardness (Shore A)	>20	EN ISO 868 ASTM D 2240

## TECHNICAL PROPERTIES AFTER APPLICATION AND CURING

QUALITY (23°C, 50% RH )	VALUE	STANDARD & METHOD
Service Temperature (°C)	-40°C // +80°C	-
Short-Term Minimum Temperature (°C)	200°C	-
Touch Drying (hour)	4 - 8	at 23°C - 50% RH
Full Curing (Day)	7	
Application Surface Temperature	Min. 10°C Max. 40°C	-
Application Ambient Temperature	Min. 10°C Max. 40°C	-

### Application Information:

#### Surface Preparation:

The application surfaces should be dry and clean. The application temperature should be between 10-30°C. It should not be applied to wet or frozen floors. The expansion and constriction movement of the application surface should not exceed 25% of the joint width. If required, easy-to-remove bands can be adhered to the both sides of the joint to make it appear as a proper and clean line during the application process. These bands should be removed before curing process (after 30 minutes) following the application.

#### 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.

#### Joint Application:

Place the joint cord into the necessary depth and apply undercoating following the proper joint and surface preparation. Ensure that outer cover is not drilled during polyethylene cord application. Otherwise, it may cause bubbling with increasing heat. The cord used as a solid and stable support is important to provide the accurate rate of width to depth and proper mastic application. The recommended width is between 5-40 mm. The joint's width/depth rate should be around 2:1. The prepared mixture is poured on the surface and spread by using a trowel. During the application process;

The relative humidity of the air should be maximum 80%, and the application temperature (environment and surface) should be between +10°C and +30°C. There should be no rain 24 hours before the application, during the application and 24 hours after the application. The floor temperature should be 3°C higher than the present dewing temperature. (Please ask for Ambient temperature-Ambient humidity-Dewing temperature table.) The application surfaces should be taken under protection for at least 24 hours. The material provides the mechanical values specified in the technical specification information sheet about 7 days later.

#### Post-Application Cleaning:

Equipment used during application should be cleaned with a suitable solvent immediately after application.

The theoretical joints works applicable with SUFFIX PU SEAL BT2K 10:

Joint Depth	Joint Width			
	2 cm	4 cm	8 cm	10 cm
1 cm	0.28 kg/mt	0.56 kg/mt	1.12 kg/mt	1.40 kg/mt
2 cm	0.56 kg/mt	1.12 kg/mt	2.24 kg/mt	2.80 kg/mt

#### Package:

12 kg set SUFFIX PU SEAL BT2K10;  
Component A: 10 kg metal can bucket  
Component B: 2 kg metal can bucket

#### Undercoating Selection:

The highly absorptive surfaces such as concrete, cement floor or wood can be undercoated after being filled with SUFFIX PRIMER PUR 1K or SUFFIX PRIMER WB EP in advance.

CHARACTERISTICS OF APPLICATION SURFACE	Primer EP Barrier	Primer EP	Primer EP Filler	Primer PUR 1K	Primer PUR 2K	Primer PUR 1K TRANS	Primer WB EP
Humidity Rate $\leq$ 4%		✓		✓			
Humidity Rate 4% - 8%	✓						
Humidity Rate 8% - 12%					✓		✓
Uneven Concrete Surfaces with Eyelets			✓				
Metal, Aluminum, Marble, Ceramic, Galvanized Surfaces					✓	✓	
Wood	✓				✓		
PVC				✓	✓	✓	
Highly Absorptive Surfaces				✓		✓	✓
Bitumen Coated Surfaces					✓		
Glass, Ceramic and Glazed Surfaces						✓	

#### Storage and Shelf Life:

It can be stored for 9 months if it is properly stored in its unpacked, original package in a dry place between +5°C and +25°C. Material in opened buckets should be used immediately.

#### Safety Measures:

SUFFIX PU SEAL BT2K 10 contains isocyanate. Contains volatile and inflammable solvent. Do not smoke during the application process, and it is necessary to work in a well-ventilated environments away from bare flame. Please note that solvents are heavier than air; therefore it accumulates

on the floor. 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 detailed information, please apply to Safety Information Form (MSDS) or get in contact with our technical departments. 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.

