

# ExperProof BP 31

COLOR OPTIONS: Black

**30**  
±%2 - KG



## Waterproofing Materials

**1504-2  
300615**

GÜVEN MADENCİLİK İNŞAAT SAN. ve TİC. A.Ş.

### BITUMEN-POLYURETHANE BASED, TWO-COMPONENT, LIQUID, WATERPROOFING MATERIAL

Bitumen-Polyurethane based, two-component, fast curing,  
high elastic, liquid waterproofing material.



EXCELLENT  
ADHERENCE



FLEXIBLE



PERMEABLE TO  
WATER VAPOR

### TECHNICAL SPECIFICATIONS

Chemical Structure	Component A: Polyurethane Component B: Polymerized Bitumen
Viscosity	A: 3.000-5.000 cP, B: 2.000-4.000 cP (ASTM D2196 - 86/TS 5833/EN ISO 3219)
Specific Gravity	A: 0,95 g/cm <sup>3</sup> B: 1,05 gr/cm <sup>3</sup> (±0,05) (ASTM D792)
Shore A Hardness	7 days: 30-40 (ASTM D2240-05)
Solid Content	85-90% (ASTM D2369)
Bond Strength	>2 MPa (ASTM D4541)
Elongation at Break	>1.500% (ASTM D638)
Tensile Strength	>2,5 N/mm <sup>2</sup> (ASTM D412)
Mechanical Strength	5 days
Working Time	40-50 minutes
Touch Duration	2-3 hours
Flashing Point	A: >30°C, B: >59°C (ASTM D93)
Volatile Organic Compound	100-150 g/L (ASTM D3960)
Consumption	1,50-2,00 kg/m <sup>2</sup> (at least two coats)

\* All technical values are calculated at +23°C and 50% relative humidity.  
Changes in temperature and humidity change the technical values.

### ADVANTAGES

- Easy to apply.
- Cures rapidly by reacting with moisture in the air.
- Permeable to water vapor. Allows the applied surface to breathe.
- Provides excellent bonding to different surfaces.
- High mechanical and chemical resistance.
- Thanks to its continuous elastic structure, it has high tensile, tear and abrasion resistance.
- It has crack bridging feature.
- Does not contain toxic substances after curing.
- Resistant to thermal shocks.
- Provides seamless waterproofing.

### APPLICATION AREAS

Used as waterproofing material:

- In areas that will not be exposed to direct UV rays,
- On horizontal and vertical surfaces,
- Terrace, roof, balcony, veranda and rain gutters,
- Concrete, wood and metal surfaces (with suitable primers)
- Waterproofing applications of foundation curtain and retaining walls,
- In wet areas under ceramic tiles such as bathrooms and kitchens.

# ExperProof BP 31

COLOR OPTIONS: Black

30  
±%2 KG



## Waterproofing Materials

1504-2  
300615

GÜVEN MADENCİLİK İNŞAAT SAN. ve TİC. A.Ş.

### **SURFACE AND APPLICATION CONDITIONS**

- The floor concrete must be cured and the moisture content of the concrete must not exceed 4%.
- Surface hardness of the concrete to be applied: R28 = 15 Mpa.
- Air temperature should be between +5°C and +35°C during application.
- Relative humidity should not be more than 80%.
- The floor temperature must be at least +3°C above the condensation point.
- Do not apply on wet, high humidity or frozen surfaces.

### **SURFACE PREPARATION**

- The application surface must be dry. It should be cleaned from dust, dirt, paint, oil and similar substances that will reduce adherence. Eyelet gaps should be filled. Oil-soaked surfaces should be cleaned with chemical cleaning agents.
- Damaged parts, unstable surfaces and cracks should be repaired with appropriate products.
- The prepared surface should be primed with an appropriate ExperPrime primer and made ready for waterproofing application.

### **PREPARATION OF MIXTURE**

- Make sure that the material temperature is not lower than +15°C before mixing.
- Component A is mixed with a low speed (300-400 rpm) mixer for a reasonable time until it becomes homogeneous.
- Component B is then added to Component A and mixed with a low speed mixer (300-400 rpm) until a homogeneous mixture is obtained (at least 3 minutes).
- In order to prevent possible mixing errors, the final mixture is placed in a clean and suitable container and mixed for the last time at low speed for a short time and then made ready for use.
- Mixing for too long and at high speed should be avoided to minimize air entrainment.
- Do not add solvent, thinner etc. into the mixture during application.

### **APPLICATION DETAILS**

- The mixed ExperProof BP 31 is applied homogeneously on the surface with a roller brush, trowel, brush or airless sprayer. Ensure that the surface is completely covered and a non-porous coat is formed.
- Waiting time between layers is minimum 4 hours and maximum 24 hours at +23°C. Waiting time between layers may be shorter or longer depending on weather conditions. If more than 24 hours have elapsed, the primer surface should be roughened with grinder before applying new coats.

### **WARNINGS**

- Since it contains solvents, it should not be applied in closed areas or the environment should be well ventilated. Further, it is combustible. Do not approach with open flame, cigarette etc. during application.
- Do not apply in weather conditions below +5°C, above +30°C, in rainy and/or windy weather.
- Products prepared for application must be stored at +15°C for at least 24 hours before application.
- If negative water vapor pressure is detected on the application surface, a special waterproofing application should be made accordingly before application.
- After application, the surface should be protected against water, rain, dew, snow, hail, etc. until it is completely dry.

### **CONSUMPTION**

- 1,50-2,00 kg/m<sup>2</sup> (at least two coats)

\*Consumption may vary depending on surface roughness, ambient and surface temperature and application method.

# ExperProof BP 31

COLOR OPTIONS: Black

30  
±%2 KG



Waterproofing  
Materials

1504-2  
300615

GÜVEN MADENCİLİK İNŞAAT SAN. ve TİC. A.Ş.

## **EQUIPMENT CLEANING**

- Equipment should be cleaned with soapy water immediately after use. Cured material can be cleaned with thinner.

## **STORAGE AND SHELF LIFE**

- Should be stored in its unopened original packaging, in a dry environment, protected from frost, between +10°C and +25°C. Products should not be overloaded in a way to damage their packaging.
- Shelf life under appropriate storage conditions is 12 months from the date of production. Since products in opened packages will freeze in a short time, they should not be stored again and should be consumed.

## **SAFETY PRECAUTIONS**

- During use, work clothes, protective gloves and masks should be used in accordance with the rules of Occupational and Labor Health. Eye, mouth and skin contact should be avoided and the contact area should be washed with plenty of water. In more dangerous situations or in case of ingestion of the product, a specialist doctor should be consulted immediately. Food and beverages should not be brought into the application areas. Keep out of the reach of children. For detailed information, the Safety Data Sheet (SDS) should be consulted.

## **PRODUCT LIABILITY**

- Güven Madencilik İnş. San. ve Tic. A.Ş., is only responsible for the quality of EXPERAS branded products. All data presented are the result of practical and scientific studies. The manufacturer cannot be held responsible except for the use of the correct products in appropriate areas and conditions.

## **LEGAL NOTES**

- The information and recommendations for the use of EXPERAS branded products are provided in good faith based on technical knowledge and experience, provided that they are maintained and handled under normal conditions and in accordance with the recommendations. Along with the products, the areas of use and surfaces may vary widely. It is necessary to ensure that the correct EXPERAS branded products are applied on appropriate surfaces and under appropriate conditions. In addition, all information and instructions regarding commercial factors and technical conformity must be strictly followed. The manufacturer cannot be held responsible for any damages and problems that may occur if not complied with. The applicator/user is obliged to make the relevant checks to ensure these details. The specifications of EXPERAS branded products may be changed when necessary. The property rights of third parties must be respected. When the order is confirmed, all existing technical conditions are essential for sales and transportation.

## **REFERENCE STANDARDS**

- TS EN 1504-2

