

ExperProof PD 40

COLOR: White

20
±%2 KG

Packaging Options

20 kg/Plastic Bucket
5 kg/Plastic Bucket
1 kg/Plastic Bucket



Waterproofing Materials

207916

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

HYBRID POLYURETHANE DISPERSION BASED, SINGLE COMPONENT, UV RESISTANT, VERY FLEXIBLE WATERPROOFING MATERIAL

Hybrid Polyurethane Dispersion Based, Single Component, Water Based, High UV Resistance and Adhesion Strength, Very Flexible Waterproofing Material.



TECHNICAL SPECIFICATIONS

Chemical Structure	Hybrid Polyurethane Dispersion
Density	1,22 gr/cm³ (± %5)
Viscosity	45000-60000 mPa.s (SP4-6RPM)
Shore A Hardness	7 days: 70-80 (ASTM D2240-05)
Adhesion Strength	7 days: >1,5N/mm² (Concrete), >1,5 N/mm² (Glass), >1 N/mm² (Wood), >1 N/mm² (Metal), >0,7 N/mm² (Plastic)
Solid Matter Ratio	~ 60% ± 1,5
Elongation at Break	7 days: >% 350 (ASTM D638)
Capillary Water Absorption	≤0,1 kg/m²h ^{0,5}
Dry-to-touch	4-6 hours
Waiting Time Between Coatings	4-6 hours
Full Curing Time	7 days
Application Thickness	1,0-2,5 mm
Time Required for Water Impermeability	Min 7 Days
Mechanical Durability Acquisition Time	Min 7 Days

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

ADVANTAGES

- Elastic structure. Crack bridging properties.
- Very high elongation value.
- Resistant against UV rays. Does not yellow and does not crack.
- High performance on surfaces such as concrete, glass, wood, glazed ceramics and bituminous membranes.
- High coverage and UV reflectivity.
- No yellowing/cracks for many years with its special UV Habs and absorber additives. It is not affected by UV rays.
- Resistant to thermal shocks.
- Water vapor permeability.
- Easy to apply.
- High adhesion strength.
- Easy to clean.
- Seamless water and moisture insulation.

SCOPE OF APPLICATION

- Indoor and outdoor waterproofing applications,
- Horizontal and vertical surfaces,
- Waterproofing of flat/sloping roofs, terraces, balconies and walkable surfaces,
- Insulation of gutters, drains, eaves and chimney bottoms,
- Waterproofing of water tanks, water tanks, reservoirs, water pipes and ducts (except drinking water),

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- Under ceramic waterproofing applications of wet floors such as bathrooms and kitchens (with ExperTile C2 group Ceramic Adhesives),
 - Waterproofing applications of production, storage and assembly areas,
 - Waterproofing and protection of bridges, tunnels and similar concrete structures,
- Used as waterproofing material.

SURFACE AND APPLICATION CONDITIONS

- If the application surface is concrete, the compressive strength of the surface must be at least 25 N/mm² and the tensile strength (pull off) must be at least 2.0 N/mm².
- The floor concrete must be cured and the moisture content of the concrete must not exceed 4%.
- The floor temperature must be not less than +8°C and at least +3°C above the condensation point.
- The air temperature should be between +10°C and +35°C during application.
- Relative humidity should not be more than 80% and the surface temperature should be between +8°C and +30°C.
- It should not be applied 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. Air voids should be filled. Oil-soaked surfaces should be cleaned with chemical cleaning agents and then the surface should be cleaned once more with a water jet. Any puddles remaining on the surface should be removed with vacuum cleaners.
- The dust layer formed after mechanical cleaning should be vacuumed with industrial vacuum cleaners.
- If there is any doubt about the surface, a trial application should be made.
- Cracks and areas requiring filling should be repaired with ExperRepair PT 10.
- After surface preparation is completed, the area should be primed with ExperPrime HD 25 primer material and made ready for insulation application.

PREPARATION OF THE MIXTURE

- Before mixing, make sure that the material temperatures are between +10°C and +35°C.
- The material at the appropriate temperature is made ready for use by mixing at low speed with the help of a mixer for a short time.
- Mixing for too long and at high speed should be avoided to minimize air entrainment.
- Solvent, thinner etc. should not be added into the material during application.

APPLICATION DETAILS

- ExperProof PD 40 should be homogeneously applied to the surface with a roller or brush. It should be ensured that the surface is completely covered and a non-porous coat is formed.
- The second coat should be applied 4-12 hours after the first coat application is completed. Depending on the condition of the surface, if necessary, a third coat can be applied in the same way.
- Waiting time between coats is minimum 4 hours and maximum 12 hours at +23°C.

WARNINGS

- Do not apply in weather conditions below +10°C, above +35°C, in rainy and/or windy weather. If necessary, the ambient humidity and floor temperature should be optimized with the help of heaters and dryers.
- Not applicable to areas in contact with drinking water.
- In case of the need to heat the application area; gas, oil, paraffin or similar fossil fuel heaters should not be used. Only electric heating systems that blow warm air should be used.
- The unpacked product will quickly form a film on the surface due to the effect of moisture. Therefore, the opened package should be consumed within 2-3 hours.
- After the insulation application is completed, the floor should be protected from direct contact with water for at least 48 hours.

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CONSUMPTION

- 1,00-2,50 kg/m² (at least 2 coats)

*Under low temperature conditions, viscosity increases and consumption may also increase.

EQUIPMENT CLEANING

- Equipment should be cleaned with solvent immediately after use. The cured material can only be cleaned with water and mechanical means.

STORAGE AND SHELF LIFE

- It should be stored in its unopened original packaging, in a dry environment, protected from frost, between +10°C and +30°C. The products should not be overloaded in a way that would damage their packaging.
- Shelf life under proper storage conditions is 12 months from the date of manufacture. Opened packages must be consumed on the same day.

SAFETY PRECAUTIONS

During its use, work clothes, protective gloves and masks should be used in accordance with the Occupational and Occupational Health rules. Uncured material may have an irritating effect. For this reason, contact with eyes, mouth and skin should be avoided and the contact area should be washed with plenty of water.

In more dangerous situations or if the product is swallowed, a specialist should be consulted immediately. Food and beverages should not be brought into the application areas. It should be kept out of reach of children. For detailed information, the Safety Data Sheet (MSDS) should be consulted.

RESPONSIBILITY

Güven Madencilik İnş. San. ve Tic. A.Ş. is only responsible for the quality of EXPERAS branded products. All presented data have been created as a result of practical and scientific studies. The manufacturer cannot be held responsible except for the use of the right products in appropriate areas and conditions.

YASAL NOTLAR

The information and usage recommendations regarding EXPERAS branded products are presented in good faith in the direction of technical knowledge and experience, provided that they are kept and intervened under normal conditions and in accordance with the recommendations. Along with the products, areas of use and surfaces can differ a lot. It is necessary to ensure that the right EXPERAS branded products are applied on the appropriate ground and conditions. In addition, all information and instructions given on commercial factors and technical compliance must be strictly followed. The manufacturer cannot be held responsible for any damage or problem that may occur if it is not complied with. The applier/user is responsible for making the relevant checks to ensure these details. The specifications of EXPERAS branded products can be changed when necessary. The property rights of third parties must be respected. When the purchase order is confirmed, all technical conditions in terms of sales and shipping are essential.

REFERENCE STANDARDS

- TS EN 1504-2

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