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# BestSeal PU454S

Super elastic Polyurethane waterproof, one component.

**Description:** BestSeal PU454S is polyurethane waterproof and single component that cures with the humidity in the atmosphere to produce a highly elastic membrane with a continuous film and no joint.

**Recommended uses:** BestSeal PU454S is used for waterproofing items such as:

- Seno, balcony, terrace, roof deck...
- Roof of factory, warehouse, swimming pool, water tank, water waster.
- Floor, wall of the bathroom, toilet.
- Concrete structure parts, bricks structures, and stones structures.

**Advantage:**

- Good at tensile strength, adhesion strength, tear resistance, elongation at break, and elasticity.
- Resistant to cleaner, alkalinity, organic oil, and salt.
- Adhesion to various types of materials.
- Could seal large crack (up to 2mm).

## PRODUCT INFORMATION:

**Suppliers form:** Thickened liquid.

**Color:** Grey, black, green, brown.

**Specific gravity:** 1.35 ± 0.05 kg/liter (25°C) (ASTM D1475-13)

**Viscosity:** 8000 ± 1500 mPa.s (25°C)

**Consumption:** 0.7 ÷ 1.0 kg/m<sup>2</sup>/layer. At least two layers.

**Packaging:** 7; 15 kg/ pail.

**Storage condition:** Cool, dry place, ambient temperature is 15°C ÷ 30°C.

**Shelf-life:** Minimum at 12 months from the date of manufacture, in the unopen pail.

## TECHNICAL PROPERTIES:

**Skin time:** 120 to 180 minutes depending on the moisture and ambient temperature. (TCVN 2096-3: 2015)

**Elongation at break:** ≥ 500% (ASTM D412-16)

**Tensile strength:** ≥ 2.0 MPa (ASTM D412-16)

**Tear strength:** ≥ 10 N/mm (ASTM D624-00)

**Shore A hardness:** ≥ 40 (ASTM D2240-15)

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<b>Adhesion strength:</b>	≥ 1.0 MPa	(ASTM D7234-05)
<b>Crack bridging ability:</b>	≥ 2 mm	( BS EN 1489: 2017)
<b>Water penetration under a water pressure of 1.5 bar for 7 days:</b>	Impermeable	( BS EN 1489: 2017)
<b>Condition application:</b>	Minimum: 5°C ( about dew point as least 3°C) Maximum: 40°C. The relative humidity is 75%.	
<b>Service temperature:</b>	-30°C to +80°C	

**GUIDE TO APPLICATION:**

**Coating system:** Should apply one primer layer of BestPrimer PU40S, BestPrimer PU50S BestPrimer EP701, BestPrimer EP702, BestPrimer EP703 or BestPrimer EP601, BestPrimer EP602, BestPrimer EP603 then coat two or three layers of BestSeal PU454S followed by the project design.

**Surface preparation:** The surface must be flat, sound, and dry ( maximum surface moisture is 4%). All the cracks and defective parts must be repaired by the proper methods. Clear and remove all contaminations, fragile parts, dust, and oil,.. before go to apply BestSeal PU454S.

**Application:** Firstly, should lightly mix BestSeal PU454S to reach a homogenous mixture and optimize the air capture in the mixture.  
Secondly, use a serrated teeth squeegees or straight squeegees, brush, rulo, or pressure nozzle to apply BestSeal PU454S to entitle the prepared surface. The further layer is applied after at least 18 hours.  
If there is high waterproof ability required, recommend applying 3 layers.  
If there is a topcoat over the BestSeal PU454S layer, the final layer of BestSeal PU454S should be covered by dry sand ( the aggregate size is 0.4 to 0.8 mm) to sandy the surface (Spread dry sand when the layer of BestSeal PU454S is still wet) to enhance the adhesion ability with topcoat.  
For surface contact frequently exposure to UV rays, two layers of BestCoat PU714 should be applied (72 hours after application of the final coat) to protect BestSeal PU454S.

**Caution:**

- The consumption of each layer do not over 1.0kg/m<sup>2</sup>.
- Depending on the construction method, 5-10% BestThinner XBM820 (by weight) can be added to BesSeal PU454S when necessary.
- If you open the bucket do not save it the next time.
- Do not apply under rain or if the surface is water stand.

**Cleaning:** Clean tools and equipment by BestThinner SC-01.

**Health and safety:** The product may cause an allergic reaction to sensitive skin with prolonged contact. PPEs should be worn when working.  
In case of being splashed into the eyes, nose, or mouth... should immediately wash with clean water several times before going to the nearest medical facility for timely and proper treatment.

**Disclaimer:** *The technical information and manuals in the BESTMIX documents are based on our knowledge and practical experience. The information contained herein is of a general nature only. Before use, it is necessary to conduct tests to check the suitability of products for each specific requirement and purpose. BESTMIX reserves the right to change the physical parameters of the product without prior notice. The user should always refer to the product's latest technical documentation.*