

PUA 680

HIGH-ELASTICITY WATERPROOFING
PU-BASED, FOR ROOF DECKS

PRODUCT DESCRIPTION

PUA 680 is a next-generation PU–acrylic hybrid waterproofing system that combines the outstanding properties of polyurethane and acrylic to deliver ultra-high elasticity, long-term durability and adaptability to Vietnamese weather conditions. Once cured, the product forms a continuous, seamless waterproofing membrane capable of bridging large cracks (≥ 10mm) and remaining stable even under severe temperature, weather and environmental exposure; its UV-resistant and anti-ageing additive system preserves the mechanical properties and colour of the coating outdoors over time. PUA 680 prevents the ingress of water and moisture and protects concrete against chloride and sulphate ions and marine exposure; it bonds strongly to a wide range of substrates (concrete, metal roofs, existing tiles, existing waterproofing layers) and can be applied to both vertical and horizontal surfaces — a versatile waterproofing solution for exposed areas subject to severe weathering.





CLASSIFICATION · CERTIFICATION
EN 14891 DMP
EN 1504-2 (C) PI-MC-PR



ILLUSTRATIVE IMAGE Applying PUA 680 PU-based coating over cracks on a roof slab



ILLUSTRATIVE IMAGE Concrete roof and gutters coated with a high-elasticity PU membrane

USES

- Waterproofing of external walls, basement walls and façades
- Waterproofing of concrete roofs, roof terraces, metal roofs and gutters
- Refurbishment and waterproofing of existing surfaces and existing waterproofing layers
- Protects concrete and structural elements in aggressive environments (marine, chloride, sulphate)

SUITABLE SUBSTRATES

- Concrete (cast in-situ or ready-mixed)
- Cement mortar, render or screed with a strength of ≥ 10MPa
- Concrete roofs, metal roofs and tiled roof surfaces
- Existing cementitious or bituminous waterproofing systems that remain well bonded
- Previously painted wall surfaces that are sound and free of flaking
- Precast concrete elements and wall panels

TECHNICAL DATA

Property	Standard	Result at a coverage of 1.5kg/m²
Adhesion strength to concrete after 14 days	ASTM D7234-21	≥ 1.5MPa
Adhesion strength after 14 days of heat aging		≥ 2.5MPa
Maximum tensile strength	ASTM D412-16(2021)	≥ 2.5MPa
Elongation at break after 28 days		680% ± 68%
Watertightness (150kPa water pressure for 7 days)	BS EN 14891:2017	No penetration
Crack bridging ability		≥ 10.0mm

The above results and recommendations are based on laboratory testing; actual performance may vary depending on the application method and specific site conditions

QUICK SPECIFICATIONS

PACKAGING	05kg/pail and 20kg/pail
COLOUR	White, grey and custom colours on request
SHELF LIFE	24 months (unopened container)
COVERAGE	0.3 - 0.6kg/m²: previously painted surfaces and new walls 2.0 - 3.0kg/m²: concrete roofs
WAITING TIME BETWEEN COATS	20 - 45 minutes (or longer depending on site conditions; touch dry)
WAITING TIME BEFORE WATER TESTING	3 - 7 days (depending on project requirements)

SAFETY INFORMATION

- **Skin and eyes:** the product is alkaline and, in contact with perspiration or body fluids, may cause skin irritation or an allergic reaction in sensitive individuals; it may cause serious eye damage on direct contact
- **Eye contact:** rinse immediately under gently running clean water for 10 - 15 minutes without rubbing; if stinging persists, go to the nearest medical facility
- **Protective equipment:** Gloves · Safety goggles and dust mask (when mixing the product or dry-grinding the substrate) · Protective clothing
- **Working environment:** work in a well-ventilated area; avoid confined spaces, children and pets; avoid inhaling dust when preparing the substrate by dry grinding
- **Surplus material:** reseal the container after use for best storage; do not discharge into drains — allow to dry and dispose of as construction waste
- Refer to the latest **Safety Data Sheet (SDS)** on the official BUMATECH website, or contact the technical department

PRECAUTIONS & DISCLAIMER

- DO NOT use over movement joints, structural cracks or locations with differential vertical displacement; DO NOT use over cracks wider than 1.0mm
- DO NOT apply at more than 0.5kg/m² per coat; DO NOT apply when the substrate moisture content exceeds 6% or the surface temperature is below dew point + 3°C
- DO NOT use in locations subject to negative hydrostatic pressure or high rates of moisture vapour transmission; DO NOT apply directly to lightweight concrete (AAC panels, AAC blocks and similar)
- The figures in this document were established by laboratory testing under standard conditions; actual values vary with temperature, humidity, accompanying materials, application method and workmanship. The user is responsible for verifying suitability for the intended use
- BUMATECH accepts no liability for loss arising from misuse, application contrary to these instructions, or combination with incompatible materials not confirmed in writing, and reserves the right to update technical information without prior notice. Check the latest TDS version on the website before every project

BUMATECH CO., LTD

Head Office: 154/1/5 Cong Lo, Tan Son Ward, Ho Chi Minh City
Office: 91 Hoang Bat Dat, Tan Son Ward, Ho Chi Minh City
Factory: 820 Ap Chanh, Duc Lap Commune, Tay Ninh Province

TECHNICAL 0979 793 804
SALES 0914 765 778
bumagreen@bumatech.com.vn
www.bumatech.vn

PUA 680
BROCHURE WATERPROOFING
COMPANY PROFILE BUMATECH

