QUICK ANSWERS

The 6 questions applicators ask most

One or two components?

One component, ready to use, no water added — open the pail, stir at low speed and roll; nothing to weigh or mix.

How wide a crack can it handle?

Crack bridging ability **≥ 10.0mm** (tested to BS EN 14891:2017). Substrate cracks **wider than 1.0mm** must be treated first: fill with repair mortar in step 3, then embed **BuMaTAPE** along the crack in coat 1.

What primer should I use?

PRIMER F in step 5 — improves bond between substrate and membrane. Never skip priming on new concrete or highly absorbent substrates.

How many coats, and how much per coat?

At least **2 coats**, each coat **at right angles** to the previous one, and the **full coverage**: **0.3 - 0.6kg/m²** painted surfaces, new walls; **2.0 - 3.0kg/m²** concrete roofs. Each coat **no more than 0.5kg/m²**; wait 20 - 45 minutes until touch dry before the next coat.

When must I not apply it?

Substrate moisture **> 6%** or surface temperature **below dew point + 3°C**. Not for movement joints or negative hydrostatic pressure, and not directly on lightweight AAC concrete.

Can it go over an old waterproofing layer?

Yes — concrete, metal roofs, existing tiles, cementitious or bituminous systems **that remain well bonded**, and sound painted walls free of flaking.

More questions? **Scan the Zalo OA code on the back cover** — a BUMATECH engineer will assist you directly during working hours.

BUMATECH

Tile Adhesive • Waterproofing • Dry Mix • Construction Chemicals

BUILD BETTER · LIVE GREENER

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EN 14891 DMP · EN 1504-2 (C) PI-MC-PR
Liquid-applied waterproofing — and a concrete surface protection system to EN 1504-2, principles PI · MC · PR.

PRODUCT CLASSIFICATION
Liquid-applied waterproofing
EN 14891 class DMP · Concrete protective coating EN 1504-2 (C)

BUMA-WP · WATERPROOFING

PU WATERPROOFING FOR ROOF DECKS

PUA 680

One-component PU–acrylic hybrid forming a continuous, seamless membrane — bridges cracks up to 10mm, UV and ageing resistant for exposed areas.

ELONGATION 680%

CRACK BRIDGING ≥ 10mm

EN 14891 DMP

PRODUCT CLASSIFICATION
In compliance with European standard · EN 14891 · DMP · LIQUID APPLIED WATER IMPERMEABLE PRODUCTS
EN 14891 DMP · EN 1504-2



680%
elongation at break after 28 days (ASTM D412-16(2021))

BUILD BETTER
LIVE GREENER

01 WHY PUA 680?

Exposed roof decks face constant sun, rain and thermal movement — the membrane must **move with the substrate without tearing**. **PUA 680** is a PU–acrylic hybrid with elongation of **680%** and crack bridging **≥ 10mm**, with UV-resistant additives that preserve its mechanical properties outdoors.

ELONGATION 680%

Continuous seamless membrane that follows the roof deck's thermal movement without tearing

CRACK BRIDGING ≥ 10mm

Tested to BS EN 14891:2017 — substrate cracks wider than 1.0mm must be filled before coating

ONE COMPONENT

Stir and roll, nothing to weigh or mix — fewer workmanship errors on site

02 STANDARDS & TECHNICAL PROPERTIES

BS EN 14891:2017 · EN 1504-2 · ASTM D7234-21 · ASTM D412-16(2021)

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

** Results at a coverage of 1.5kg/m² — data per TDS **PUA 680** v2026.10, laboratory test results.*

03 TECHNICAL DATA

680% elongation at break	**≥ 10** mm crack bridging	**≥ 2.5** MPa tensile strength
≤ 0.5 kg/m² per coat	**20 - 45** min between coats	**24** months shelf life

Packed in 05kg and 20kg pails · white, grey and custom colours on request. Coverage 0.3 - 0.6kg/m² on previously painted surfaces and new walls; 2.0 - 3.0kg/m² on concrete roofs. Do not apply more than 0.5kg/m² per coat.

04 SCOPE OF USE

- Concrete roofs, roof terraces, metal roofs and gutters
- External walls, basement walls and façades
- Water tanks, pools, balconies, planters and landscaped areas
- Refurbishing well-bonded cementitious or bituminous waterproofing





COMPLETE SYSTEM: Prime with **PRIMER F** in step 5 for bond, then apply **PUA 680** in at least two coats at right angles; reinforce with **BuMaTAPE** and **BuMaMESH 70**.

05 APPLICATION IN 10 STEPS


1 Check substrate and moisture


2 Clean and roughen


3 Fill cracks with repair mortar



4 Pipe collars, cove corners


5 Roll PRIMER F primer


6 Stir the product


7 Coat 1, embed BuMaTAPE


8 Lay BuMaMESH 70 mesh


9 Next coat at right angles


10 Flood test

Key reminders: Max 0.5kg/m² per coat · Do not apply when substrate moisture > 6% or surface below dew point + 3°C · Treat cracks > 1.0mm before coating