BUMATECH

Tile Adhesive • Waterproofing • Dry Mix • Construction Chemicals

PRODUCT LINE CATALOGUE · 2027



3.WP PRODUCT LINE

WATERPROOFING

18 admixtures, primers, waterproofing membranes and reinforcing materials for

External walls · Basements · Sanitary rooms · Water tanks · Balconies · Roof decks · Sheet roofs

- BuMaLATEX
- LATEX SP
- PRIMER W
- PRIMER F
- PRIMER MOI
- K11W
- K11F
- FLEX WP 2K
- BuMaLASTIC
- WALLCOAT
- PROOF 668
- PUA 680
- EnerSAV
- SolarSHIELD
- BuMaTAPE
- BuMaFAB
- BuMaMESH 70
- BuMaMESH 150

SINGAPORE GREEN BUILDING COUNCIL MEMBER

VGBC STANDARD MEMBER

BROCHURE WATERPROOFING

COMPANY PROFILE BUMATECH

ZALO OA

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18 PRODUCTS IN THE 3.WP LINE

ADMIXTURES & PRIMERS
- BuMaLATEX
- LATEX SP
- PRIMER W
- PRIMER F
- PRIMER MOI

MIXED WITH CEMENT ON SITE
- K11W
- K11F

TWO-COMPONENT CEMENTITIOUS
- FLEX WP 2K
- BuMaLASTIC

ACRYLIC AND PU MEMBRANES
- WALLCOAT
- PROOF 668
- PUA 680
- EnerSAV
- SolarSHIELD

WATERPROOFING REINFORCEMENT
- BuMaTAPE
- BuMaFAB
- BuMaMESH 70
- BuMaMESH 150

CHOOSE THE RIGHT WATERPROOFING SYSTEM IN FOUR STEPS

Identify the application, the finish above, the crack condition of the substrate and the need for heat reduction — then choose the product.

01
Application area
External walls, basements, sanitary rooms, water tanks, balconies, roof decks, sheet roofs — see page 9.

02
Tiled over or not
K11W, **K11F**, **FLEX WP 2K**, **BuMaLASTIC**, **PROOF 668**: wait before tiling. Over two-component membranes use a C2 adhesive or higher.

03
Cracks in the substrate
Treat existing cracks before application. The 5 acrylic and PU products are not for cracks wider than 1.0mm.

04
Heat reduction needed
Exposed roofs that must absorb less heat: **EnerSAV** and **SolarSHIELD** reflect solar radiation.

18
PRODUCTS IN THE LINE
5 admixtures and primers
9 waterproofing membranes
4 waterproofing reinforcing materials

10.0mm
HIGHEST CRACK BRIDGING
PUA 680: ≥ 10.0mm to BS EN 14891:2017.
Lowest cement-mixed product: ≥ 0.5mm.

112
HIGHEST SRI IN THE LINE
SolarSHIELD achieves a Solar Reflectance Index ≥ 112 to ASTM E1980-24.
EnerSAV achieves ≥ 100.

All data in this document are taken from the issued **Technical Data Sheet (TDS) version 2026.10** of each product. Scan the QR code on each product card to open the latest TDS. Where this document and the TDS differ, **the TDS prevails.**

ONE LINE, FIVE GROUPS BY ROLE



Admixtures & primers

BuMaLATEX · LATEX SP · PRIMER W · PRIMER F · PRIMER MOI

Substrate preparation: latex admixtures improve adhesion of mortars and tile adhesives; primers bind fine dust, limit efflorescence and bond the next layer. **PRIMER MOI** is for fresh render.



Mixed with cement on site

K11W · K11F

One-component liquid: mix 1kg of product with 0.5kg of cement on site into a polymer-modified cementitious coating. Use only cement with 28-day compressive strength ≥ 40MPa; low-speed mixer.



Two-component cementitious

FLEX WP 2K · BuMaLASTIC

Pre-weighed liquid component A and powder B: **FLEX WP 2K** at 1:3 for a hard, abrasion-resistant membrane; **BuMaLASTIC** at 1:1.5 for a highly elastic membrane. Both are classified EN 14891:2017 CMP.



Acrylic and PU membranes

WALLCOAT · PROOF 668 · PUA 680 · EnerSAV · SolarSHIELD

Coatings that form a continuous, seamless, UV-resistant membrane for exposed surfaces; 2 heat-reflective products for roofs. No more than 0.5kg/m² per coat; substrate moisture content not above 6%.



Waterproofing reinforcement

BuMaTAPE · BuMaFAB · BuMaMESH 70 · BuMaMESH 150

Between or within the waterproofing coats — never alone: **BuMaTAPE** for wide joints, **BuMaFAB** for corners and fine cracks, **BuMaMESH 70 · BuMaMESH 150** mesh for broad areas.

READING THE CLASSIFICATION CODES ON THE PRODUCT CARDS

C · D
First letter of the EN 14891:2017 code is the base: **C** cementitious, **D** dispersion (acrylic, PU)

M · P
CM, **DM**: liquid-applied waterproofing. **P**: resistant to chlorinated water (pools)

(C) PI-MC-PR
EN 1504-2 concrete coatings: Ingress protection · Moisture control · Physical resistance

TYPE II
ASTM C1059: latex agents bonding new mortar to hardened concrete — **LATEX SP** meets Type II

CMP: **FLEX WP 2K**, **BuMaLASTIC** · DMP: **WALLCOAT**, **PROOF 668**, **PUA 680**, **EnerSAV** · EN 1504-2 (C) PI-MC-PR: **FLEX WP 2K**, **BuMaLASTIC**, **PROOF 668**, **PUA 680**, **EnerSAV**. Tender documents often specify by code rather than trade name — check every code on each product's classification card.

9 MEMBRANES — RANKED BY CRACK BRIDGING

Product	Crack bridging mm	Bond MPa	Elongation at break	Tensile MPa	Coverage kg/m²	Classification · Certification
K11F Cement-mixed	**≥ 0.5**	≥ 0.5 28 days ASTM D7234-21	70% ± 20%	≥ 1.2	0.5 - 2.0	–
K11W Cement-mixed	**≥ 0.75**	≥ 1.0 28 days ASTM D7234-21	70% ± 5%	≥ 1.2	0.5 - 2.0	–
FLEX WP 2K Two-component	**≥ 0.75**	≥ 1.4 Standard conditions EN 14891:2017	30% ± 10%	≥ 1.5	1.5 - 3.5	EN 14891:2017 CMP · (C) PI-MC-PR
SolarSHIELD Heat-reflective acrylic	**≥ 0.75**	≥ 1.1 Concrete substrate ASTM D7234-21	30% ± 3%	≥ 2.0	0.3 - 2.0	–
BuMaLASTIC Two-component	**≥ 1.2**	≥ 1.2 Standard conditions EN 14891:2017	230% ± 23%	≥ 1.4	1.0 - 3.0	EN 14891:2017 CMP · (C) PI-MC-PR
WALLCOAT Acrylic-based	**≥ 2.5**	≥ 1.5 28 days ASTM D7234-21	100% ± 15%	≥ 2.5	0.3 - 0.9	EN 14891:2017 DMP
PROOF 668 Acrylic-based	**≥ 3.5 · ≥ 5.0** at 0.6 - 0.9kg/m² and ≥ 2.0kg/m²	≥ 1.2 28 days ASTM D7234-21	200% ± 20% 350% ± 35%	≥ 2.5	0.6 - 3.0	EN 14891:2017 DMP · (C) PI-MC-PR
EnerSAV Heat-reflective acrylic	**≥ 5.0** at ≥ 2.0kg/m²	≥ 1.8 Concrete substrate ASTM D7234-21	300% ± 30%	≥ 2.5	0.3 - 3.0	EN 14891:2017 DMP · (C) PI-MC-PR
PUA 680 Lai PU - Acrylic	**≥ 10.0**	≥ 1.5 14 days ASTM D7234-21	680% ± 68%	≥ 2.5	0.3 - 3.0	EN 14891:2017 DMP · (C) PI-MC-PR

Crack bridging to BS EN 14891:2017. Elongation and tensile strength to ASTM D412-16(2021). Coverage is the lowest - highest range by application; details on page 9.
WALLCOAT tested at 0.6kg/m², **PUA 680** at 1.5kg/m².

⚠ **Existing substrate cracks.** 5 products — **WALLCOAT**, **PROOF 668**, **PUA 680**, **EnerSAV**, **SolarSHIELD** — **are not for cracks wider than 1.0mm**.
Treat cracks suitably before application; reinforce with **BuMaFAB** or **BuMaTAPE** — see page 11.

4 REINFORCING MATERIALS — EMBEDDED IN THE WATERPROOFING

Product	Construction	Tensile strength	Elongation	Crack bridging	Roll size	Application areas
BuMaTAPE	Rubber core between two fabric layers	5.7MPa	≥ 664%	4.79mm 28 days standard conditions	15cm × 10m	Expansion joints, structural joints, wall-base corners
BuMaFAB	Fibre fabric	MD 49.0N/50mm CD 30.0N/50mm	–	–	15cm × 50m	Corners, fine cracks, broad-area reinforcement
BuMaMESH 70	Alkali-resistant glass mesh 70 ± 5g/m²	Weft ≥ 550N/50mm Warp ≥ 550N/50mm	–	≥ 2.20mm With **BuMaLASTIC** 3.0kg/m²	1 × 50m/roll	Reinforces waterproofing, mortar and skim coat layers
BuMaMESH 150	Alkali-resistant glass mesh 150 ± 5g/m²	Weft ≥ 1300N/50mm Warp ≥ 1100N/50mm	–	≥ 2.20mm With **BuMaLASTIC** 3.0kg/m²	1 × 50m/roll	Reinforces waterproofing, mortar and skim coat layers

Tensile strength: **BuMaTAPE** tested to BS EN 12311-2:2013; **BuMaFAB**, **BuMaMESH 70**, **BuMaMESH 150** to BS EN 12311-2:2000. Crack bridging to BS EN 14891:2017.

ADMIXTURES AND PRIMERS · 01 - 05



BuMaLATEX

MULTI-PURPOSE LATEX ADMIXTURE · FOR TILE ADHESIVES, CEMENTITIOUS MORTARS

Modified styrene butadiene emulsion, water-diluted then mixed with pre-blended or site-batched cement – sand mortar: bonding slurry, water-resistant, masonry and render mortars, patching; with **BuMaGREEN** for exterior and water-tank tiling.

≥ 2.8MPa	≥ 2.0MPa	≥ 1.5MPa	0g/l
Slant shear · Pass	Adhesion 28 days*	After water immersion*	VOC content

05kg/pail and 20kg/pail · Colour: Milky white · Shelf life 24 months

COVERAGE Bonding slurry: 1kg / 4m² · Latex mortar: 1.5kg / 15mm of mortar · Tile adhesive: 1.5kg per 25kg bag

MEETS ASTM C1059/C1059M-21

Slant shear bond: required **≥ 2.8MPa** — Pass.
*Mixed with **BuMaGREEN** to TCVN 7899-2:2008 EN 12004-2:2017

BuMaLATEX



LATEX SP

SPECIAL BONDING ADMIXTURE · FOR DRY MORTARS AND TILE ADHESIVES

Premium styrene butadiene latex, a bonding agent for renders, screeds and tile adhesives: much higher adhesion, lower water permeability, restricted chloride ion ingress. Bonds new concrete to old; with **BuMaFIX** for tile-on-tile.

≥ 8.6MPa	≥ 2.5MPa	≥ 1.8MPa	0g/l
Slant shear · Pass	Adhesion 28 days*	After water immersion*	VOC content

05kg/pail and 20kg/pail · Colour: Milky white · Shelf life 24 months

COVERAGE Bonding slurry: 1kg / 4m² · Latex mortar: 1.5kg / 15mm of mortar · Tile adhesive: 1.5kg per 25kg bag

CLASSIFICATION

In compliance with ASTM standard ASTM C1059 TYPE II BUMATECH LATEX AGENT FOR BONDING FRESH TO HARDENED CONCRETE

ASTM C1059 Type II

*Mixed with **BuMaFIX** to TCVN 7899-2:2008 EN 12004-2:2017

LATEX SP



PRIMER W

PRIMER FOR WALL WATERPROOFING · WATER-BASED, SYNTHETIC RESIN

Water-based synthetic resin solution for concrete and cementitious mortar before waterproofing or exterior skim coats: binds fine dust, limits efflorescence and staining of the waterproofing, improves adhesion of the next layer.

0.1 - 0.2kg/m²	05 - 10m²/kg	10 - 30min	1 - 2coats
Coverage	Equivalent coverage	Drying time per layer	Number of coats

04kg/pail and 18kg/pail · Colour: Milky white · Shelf life 12 months

APPLICATION METHOD Roller or spray equipment · Specific gravity 1.01 ± 0.01

SUBSTRATE REQUIREMENTS

Concrete prepared to **ICRI CSP 2 - 3**; substrate pull-off min. **0.5MPa** to ASTM C1583/C1583M-25. Render cured about 7 days per 10mm.

PRIMER W



PRIMER F

PRIMER FOR FLOOR WATERPROOFING · WATER-BASED, SYNTHETIC RESIN

Water-based synthetic resin solution for concrete and cementitious mortar before waterproofing exterior horizontal surfaces: binds fine dust, limits efflorescence and staining of the waterproofing, improves adhesion of the next layer.

0.1 - 0.2kg/m²	05 - 10m²/kg	10 - 30min	1 - 2coats
Coverage	Equivalent coverage	Drying time per layer	Number of coats

04kg/pail and 18kg/pail · Colour: Milky white · Shelf life 12 months

APPLICATION METHOD Roller or spray equipment · Specific gravity 1.01 ± 0.01

SUBSTRATE REQUIREMENTS

Concrete prepared to **ICRI CSP 2 - 3**; substrate pull-off min. **0.5MPa** to ASTM C1583/C1583M-25. Render cured about 7 days per 10mm.

PRIMER F



PRIMER MOI

PRIMER FOR FRESH RENDER · CALCIUM ION BLOCKING · EFFLORESCENCE RESISTANT

Water-based hydrophobic styrene - acrylic primer that absorbs alkali ions: locks free calcium ions in young render and concrete, stops salt migration into the coating — earlier waterproofing, no chalking or fading of coloured coats.

0.3kg/m²	~ 3.3m²/kg	1 - 2hours	1 - 2coats
Coverage	Equivalent coverage	Drying time	Number of coats

18kg/pail · Colour: Milky white · Shelf life 12 months

APPLICATION METHOD Roller or spray equipment · Specific gravity 1.2 · Does not replace substrate curing time

MINIMUM SUBSTRATE AGE

Site-mixed mortar **3 days**
Pre-blended dry mortar
Sc 100 · **Sc 150** · **Sc 200** **1 day**

PRIMER MOI

CEMENTITIOUS · 06 - 09



K11W

CEMENT-MIXED WATERPROOFING · FOR EXTERIOR WALLS

One-component liquid mixed with cement into a polymer-modified cementitious coating — flexible, strongly bonded, hydrophobic. Optimised for walls exposed to weather, UV and wet – dry cycles; not for movement joints or live cracks.

≥ 1.0MPa	≥ 1.6MPa	≥ 0.75mm	70% ± 5%
Adhesion 28 days	After heat aging	Crack bridging	Elongation at break

04kg/pail and 18kg/pail · Colour: Milky white liquid, ivory aggregate · Shelf life 12 months

MIXING RATIO Mix 1kg of product (thoroughly stirred) with 0.5kg of cement

COVERAGE 0.5 - 1.0kg/m²: External walls, sanitary areas · 2.0kg/m²: Basement walls

WAITING TIME

Between coats **30 - 60 minutes**
Water testing **3 - 7 days**
Rendering, tiling
minimum 7 days

K11 W



K11F

CEMENT-MIXED WATERPROOFING · FLOORS AND WALLS, INTERIOR AND EXTERIOR

Polymer additive gauged with cement on site into a flexible, continuous, strongly bonded cementitious membrane; brushed, rolled or sprayed. Takes minor movement, resists UV, VOC-free — for walls and floors, inside and out.

≥ 0.5MPa	≥ 1.2MPa	≥ 0.5mm	70% ± 20%
Adhesion 28 days	After heat aging	Crack bridging	Elongation at break

04kg/pail and 18kg/pail · Colour: Milky white liquid, ivory aggregate · Shelf life 12 months

MIXING RATIO Mix 1kg of product (thoroughly stirred) with 0.5kg of cement

COVERAGE 0.5 - 1.0kg/m²: External walls, sanitary areas · 2.0kg/m²: Basement walls

WAITING TIME

Between coats **30 - 60 minutes**
Water testing **3 - 7 days**
Rendering, tiling
minimum 7 days

K11 F



FLEX WP 2K

FLEXIBLE WATERPROOFING · TWO-COMPONENT, CEMENTITIOUS

Pre-weighed two-component cementitious polymer system: a stable, hard, abrasion-resistant membrane that keeps adequate flexibility. High cement content — cost-efficient for standard waterproofing works; VOC-free.

≥ 1.4MPa	≥ 0.75mm	30% ± 10%	≥ 80
Standard adhesion	Crack bridging	Elongation at break	Shore A hardness

8.0kg set (A+B supplied in one pail) · 20kg set (A+B supplied in one pail) · 33.5kg set (A: 8.5kg · B: 25kg) · Mixed product: grey · Shelf life 24 months

RATIO 1:3 (liquid:powder)

COVERAGE 1.5 - 2.0kg/m²: Balconies, kitchens, sanitary rooms
2.5 - 3.5kg/m²: Basement walls, swimming pools, roofs

CLASSIFICATION · CERTIFICATION

In compliance with European standard EN 14891 CMP — LIQUID APPLIED WATER IMPERMEABLE PRODUCTS
In compliance with European standard EN 1504-2 (C) PI-MC-PR — SURFACE PROTECTION SYSTEMS FOR CONCRETE

EN 14891:2017 CMP
EN 1504-2 (C) PI-MC-PR

With **BuMaMESH 70** / **BuMaMESH 150** mesh:
crack bridging ≥ **1.0mm**

FLEX WP 2K



BuMaLASTIC

HIGH-ELASTICITY WATERPROOFING · TWO-COMPONENT, CEMENTITIOUS

Enhanced high-polymer cementitious system: an outstandingly elastic membrane that takes micro-movement and limits hairline cracking. Dense, strongly bonded, VOC-free; protects concrete in marine, chloride and sulphate exposure.

≥ 1.2MPa	≥ 1.2mm	230% ± 23%	≥ 55
Standard adhesion	Crack bridging	Elongation at break	Shore A hardness

7.5kg set (A+B supplied in one pail) · 20kg set (A+B supplied in one pail) · 25kg set (A: 10kg · B: 15kg) · Mixed product: grey · Shelf life 24 months

RATIO 1:1.5 (liquid:powder)

COVERAGE 1.0 - 1.5kg/m²: External walls, sanitary areas
2.0 - 3.0kg/m²: Basement walls, swimming pools, roofs

CLASSIFICATION · CERTIFICATION

In compliance with European standard EN 14891 CMP — LIQUID APPLIED WATER IMPERMEABLE PRODUCTS
In compliance with European standard EN 1504-2 (C) PI-MC-PR — SURFACE PROTECTION SYSTEMS FOR CONCRETE

EN 14891:2017 CMP
EN 1504-2 (C) PI-MC-PR

With **BuMaMESH 70** / **BuMaMESH 150** mesh:
crack bridging ≥ **2.0mm**

EPD INTERNATIONAL EPD SYSTEM — EPD **EPD-IES-0028317**

BuMaLASTIC

Waiting time before rendering, screeding or tiling: minimum 7 days for all 4 products.
FLEX WP 2K, **BuMaLASTIC**: avoid application in strong direct sun or below 15°C; do not add cement or other admixtures.
K11W, **K11F**: maximum about 1kg/m² per coat, applied in several thin coats.

ACRYLIC AND PU MEMBRANES · 10 - 12



WALLCOAT

ELASTIC ACRYLIC WATERPROOFING · FOR EXTERIOR WALLS

New-generation acrylic coating with UV and anti-ageing additives: continuous, seamless, highly elastic, it bridges micro-cracks and resists industrial emissions. For external walls of housing, high-rises, factories and cracked, leaking painted walls.

≥ 2.5mm	≥ 1.5MPa	100% ± 15%	≥ 2.5MPa
Crack bridging	Adhesion 28 days	Elongation at break	Tensile strength

05kg/pail and 20kg/pail · Colour: White, grey or to order · Shelf life 24 months

COVERAGE 0.3 - 0.6kg/m²: Old paint · 0.6 - 0.9kg/m²: New walls

BETWEEN COATS 20 - 45 minutes

CLASSIFICATION · CERTIFICATION

In compliance with European standard EN 14891 DMP BUMATECH LIQUID APPLIED WATER IMPERMEABLE PRODUCTS

EN 14891:2017 DMP

Result at a coverage of 0.6kg/m²

WALLCOAT



PROOF 668

HIGH-ELASTICITY WATERPROOFING · ACRYLIC-BASED, FOR ROOF DECKS

One-component acrylic coating with UV and anti-ageing additives: a continuous, highly elastic membrane with good crack bridging. For exposed surfaces, no protective coat needed — concrete roofs, roof terraces, external walls, metal roofs.

≥ 3.5mm	≥ 5.0mm	350% ± 35%	≥ 1.2MPa
Crack bridging · 0.6 - 0.9kg/m²	Crack bridging · ≥ 2.0kg/m²	Elongation · ≥ 2.0kg/m²	Adhesion 28 days

05kg/pail and 20kg/pail · Colour: White, grey or to order · Shelf life 24 months

COVERAGE 0.6 - 0.9kg/m²: External walls
1.2 - 2.0kg/m²: Metal roofs
2.4 - 3.0kg/m²: Concrete roofs

CLASSIFICATION · CERTIFICATION

In compliance with European standard EN 14891 DMP BUMATECH LIQUID APPLIED WATER IMPERMEABLE PRODUCTS

In compliance with European standard EN 1504-2 (C) PI-MC-PR BUMATECH SURFACE PROTECTION SYSTEMS FOR CONCRETE

EN 14891:2017 DMP
EN 1504-2 (C) PI-MC-PR

EPD INTERNATIONAL EPD SYSTEM EPD

EPD-IES-0028329

PROOF 668



PUA 680

HIGH-ELASTICITY WATERPROOFING · PU-BASED, FOR ROOF DECKS

New-generation PU - acrylic hybrid system: ultra-high elasticity, a continuous seamless membrane, UV-resistant, anti-ageing; bonds to concrete, metal roofs, old tiles and existing waterproofing — for exposed vertical and horizontal surfaces.

≥ 10.0mm	≥ 1.5MPa	680% ± 68%	≥ 2.5MPa
Crack bridging	Adhesion 14 days	Elongation at break	After heat aging

05kg/pail and 20kg/pail · Colour: White, grey or to order · Shelf life 24 months

COVERAGE 0.3 - 0.6kg/m²: Old paint, new walls · 2.0 - 3.0kg/m²: Concrete roofs

BETWEEN COATS 20 - 45 minutes

CLASSIFICATION · CERTIFICATION

In compliance with European standard EN 14891 DMP BUMATECH LIQUID APPLIED WATER IMPERMEABLE PRODUCTS

In compliance with European standard EN 1504-2 (C) PI-MC-PR BUMATECH SURFACE PROTECTION SYSTEMS FOR CONCRETE

EN 14891:2017 DMP
EN 1504-2 (C) PI-MC-PR

Result at a coverage of 1.5kg/m²

PUA 680

CHOOSING AMONG THE 3 PRODUCTS BY APPLICATION

WALLCOAT
External walls — new, or painted walls that crack and leak; industrial areas with emissions.
Crack bridging ≥ 2.5mm.

PROOF 668
Roof decks, terraces, exposed external walls — no protective coat needed.
Crack bridging ≥ 3.5mm to ≥ 5.0mm by coverage.

PUA 680
Roof decks, metal roofs, exposed vertical and horizontal surfaces; elongation 680% ± 68%.
Crack bridging ≥ 10.0mm.

All 3: not for movement joints, structural cracks, negative hydrostatic pressure or directly on AAC lightweight concrete.



*Rolling **WALLCOAT** elastic waterproofing onto an external wall*



*Applying **PROOF 668** on an exposed roof deck*



*Applying PU-based **PUA 680** over roof deck cracks*

HEAT REFLECTION AND REINFORCEMENT · 13 - 18



EnerSAV

ELASTIC ACRYLIC WATERPROOFING · WHITE, HEAT REFLECTIVE

Elastic acrylic coating for exposed roofs, with outstanding solar reflectance and thermal emittance: less heat build-up, no hot tackiness, lasting whiteness. Vapour-permeable so the surface «breathes»; overcoats sound existing waterproofing.

≥ 100	≥ 82%	≥ 0.83	≥ 5.0mm
SRI · ASTM E1980-24	Reflectance ρ · ASTM E903-20	Emittance ε · BS EN 15976:2011	Crack bridging · ≥ 2.0kg/m²

05kg/pail and 20kg/pail · Colour: White · Shelf life 24 months

COVERAGE 0.3 - 0.6kg/m²: Old paint, new walls · 1.5 - 3.0kg/m²: Metal, concrete roofs

FULL CURE ~ 5 - 7 days

CLASSIFICATION · CERTIFICATION

In compliance with European standard EN 14891 DMP BUMATECH LIQUID APPLIED WATER IMPERMEABLE PRODUCTS

In compliance with European standard EN 1504-2 (C) PI-MC-PR BUMATECH SURFACE PROTECTION SYSTEMS FOR CONCRETE

EN 14891:2017 DMP
EN 1504-2 (C) PI-MC-PR

Adhesion to concrete ≥ **1.8MPa**
Elongation **300% ± 30%**
Shore A ≥ **70**

EnerSAV



SolarSHIELD

ELASTIC ACRYLIC WATERPROOFING · WHITE, HIGH HEAT REFLECTIVITY

High-performance waterproofing and heat reflection for metal and industrial sheet roofs: acrylic resin with microspheres raises solar reflectance and limits heat transfer through the roof. For large factory and warehouse roofs; sprayed for an even coat.

≥ 112	≥ 88%	≥ 0.88	≥ 0.75mm
SRI · ASTM E1980-24	Reflectance ρ · ASTM E903-20	Emittance ε · BS EN 15976:2011	Crack bridging

03kg/pail and 15kg/pail · Colour: White · Shelf life 24 months

COVERAGE 0.3 - 0.6kg/m²: Old paint, new walls · 1.0 - 2.0kg/m²: Metal, concrete roofs

FULL CURE ~ 5 - 7 days

MEMBRANE DATA

Adhesion to concrete ≥ **1.1MPa**
Elongation **30% ± 3%**
Density **0.80 ± 0.05g/cm³**

SolarSHIELD

4 REINFORCING MATERIALS — EMBEDDED IN THE WATERPROOFING, NEVER WATERPROOFING ON THEIR OWN



BuMaTAPE

ELASTIC WATERPROOFING REINFORCING TAPE · RUBBER CORE, TWO FABRICS · WIDE JOINTS

Three-layer tape: elastic rubber core between two fabrics. If movement tears the fabric, the core still stretches and the waterproofing stays closed. For expansion and structural joints, wall-base corners — wide joints.

5.7MPa	≥ 664%
Tensile strength	Elongation at break
4.79mm	**15cm × 10m**
Crack bridging 28 days	Roll size

15cm × 10m/roll · Colour: White, printed with the blue BUMATECH logo

BuMaTAPE



BuMaFAB

REINFORCING FABRIC FOR WATERPROOFING · HIGHER TENSILE STRENGTH · FOR CORNERS AND FINE CRACKS

Fibre fabric embedded in the waterproofing coat to raise its tensile strength; it spreads stress so fine substrate cracks do not telegraph into the membrane. For corners and fine cracks; wide joints use **BuMaTAPE**.

49.0N/50mm	30.0N/50mm
Tensile strength MD	Tensile strength CD
15cm × 50m	**8 - 35°C**
Roll size	Application temperature

15cm × 50m/roll · Colour: White, printed with the blue BUMATECH logo

BuMaFAB



BuMaMESH 70

ALKALI-RESISTANT FIBREGLASS MESH · REINFORCES WATERPROOFING AND MORTAR

Alkali-resistant fibreglass mesh, synthetic-resin coated against cement alkalis: reinforces waterproofing, anti-crack membranes and cementitious levelling layers, spreads stress, raises system crack resistance.

70 ± 5g/m²	5 × 5mm
Weight	Mesh size
≥ 550N/50mm	**≥ 2.20mm**
Tensile weft and warp	Crack bridging with **BuMaLASTIC**

1 × 50m/roll · Colour: Blue with a white logo

BuMaMESH 70



BuMaMESH 150

ALKALI-RESISTANT FIBREGLASS MESH · REINFORCES WATERPROOFING AND MORTAR

The same alkali-resistant fibreglass mesh, heavier and with a finer mesh — reinforces waterproofing layers, levelling mortars and **Skim 2in1 IN**, **Skim 2in1 EX** skim coats; treats cracks and joints, interior and exterior.

150 ± 5g/m²	4 × 4mm
Weight	Mesh size
≥ 1300 / ≥ 1100N/50mm	**≥ 2.20mm**
Tensile weft / warp	Crack bridging with **BuMaLASTIC**

1 × 50m/roll · Colour: Blue with a white logo

BuMaMESH 150

SELECTION BY APPLICATION

Application	K11W	K11F	FLEX WP 2K	BuMaLASTIC	WALLCOAT	PROOF 668	PUA 680	EnerSAV	SolarSHIELD
External walls, façades	●	●		●	●	●	●	●	●
Basement walls	●	●	●	●		●	●	●	
Toilets, kitchens, wet areas		●	●	●					
Potable water tanks		●	●	●		●			
Swimming pools, water features		●	●	●		●			
Balconies, planters		●	●	●		●		●	
Roof decks, concrete roofs, terraces		●	●	●		●	●	●	●
Metal roofs, profiled sheet roofs		●	●	●		●	●	●	●
Precast wall elements, panels		●	●	●		●	●	●	
Marine and aggressive environments				●		●	●	●	
Refurbishing old or painted surfaces					●	●	●	●	●
Roof heat reduction (heat reflection)								●	●

COVERAGE AND WAITING TIMES

Product	Coverage by application	Between coats	Before water test
K11W	0.5 - 1.0kg/m²: External walls, sanitary areas · 2.0kg/m²: Basement walls	30 - 60 minutes	3 - 7 days
K11F	0.5 - 1.0kg/m²: External walls, sanitary areas · 2.0kg/m²: Basement walls	30 - 60 minutes	3 - 7 days
FLEX WP 2K	1.5 - 2.0kg/m²: Balconies, kitchens, toilets · 2.5 - 3.5kg/m²: Basement walls, pools, roofs	20 - 40 minutes	3 - 7 days
BuMaLASTIC	1.0 - 1.5kg/m²: External walls, sanitary areas · 2.0 - 3.0kg/m²: Basement walls, pools, roofs	30 - 60 minutes	3 - 7 days
WALLCOAT	0.3 - 0.6kg/m²: Old paint · 0.6 - 0.9kg/m²: New walls	20 - 45 minutes	–
PROOF 668	0.6 - 0.9kg/m²: External walls · 1.2 - 2.0kg/m²: Metal roofs · 2.4 - 3.0kg/m²: Concrete roofs	20 - 45 minutes	3 - 7 days
PUA 680	0.3 - 0.6kg/m²: Old paint, new walls · 2.0 - 3.0kg/m²: Concrete roofs	20 - 45 minutes	3 - 7 days
EnerSAV	0.3 - 0.6kg/m²: Old paint, new walls · 1.5 - 3.0kg/m²: Metal, concrete roofs	20 - 45 minutes	3 - 7 days
SolarSHIELD	0.3 - 0.6kg/m²: Old paint, new walls · 1.0 - 2.0kg/m²: Metal, concrete roofs	20 - 45 minutes	–

Coverage is the material quantity, excluding wastage. Waiting times between coats may be longer depending on site conditions — until touch-dry.
Primers: **PRIMER W**, **PRIMER F** 0.1 - 0.2kg/m² per coat · **PRIMER MOI** 0.3kg/m².

LATEX ADMIXTURE MIXING RATIOS — BuMaLATEX · LATEX SP

Component	Bonding slurry	Water-resistant mortar	Tile adhesive
BuMaLATEX or **LATEX SP**	1kg	10kg	1.5kg
Water	1kg	30 litres	4.5kg
Cement	4kg	50kg	–
Sand	–	06 buckets of 18L	–
BuMaGREEN or **BuMaFIX** tile adhesive	–	–	25kg
Pot life	30 minutes	45 - 60 minutes	45 minutes

TEN STEPS TO A ROOF DECK WATERPROOFING MEMBRANE

Illustrated with **PROOF 668** on an exposed concrete roof terrace. Other products: check waiting times and coverage on page 9.



B1

Check the weather · Moisture

Clear weather; substrate moisture not above 6%.



B2

Clean · Lightly abrade

Lightly grind the slab with a vacuum-fitted grinder; no dust left.



B3

Fill cracks · Voids

Fill cracks with **BuMaJOINT AC**, fill voids, have **BuMaTAPE** ready.



B4

Pipes · Fillets

Wrap pipes with swelling waterstop, grout in; fillet wall bases.



B5

Prime with PRIMER F

Roll one thin, even coat with a long roller.



B6

Stir the product

Open the pail and stir with a low-speed mixer until the product is homogeneous.



B7

First coat · BuMaTAPE

Roll coat one; lay **BuMaTAPE** on cracks and in corners while wet.



B8

BuMaMESH 70 mesh

While coat one is wet, cut and lay the mesh, embed it, overlap edges.



B9

Next coat crosswise

Wait 20 - 45 minutes; roll coat two across the first.



B10

Curing · Flood test

After 3 - 7 days, flood-test the whole terrace; no leaks, then hand over.



TOOLS TO PREPARE

Moisture meter · Grinder · Vacuum · Trowel · Swelling waterstop · Small brush · **BuMaTAPE** · **PRIMER F** primer · Mixer · Long roller · **BuMaMESH 70** mesh · Scissors

Maximum 0.5kg/m² per coat
Do not apply more than 0.5kg/m² per coat — build up in several thin coats.

Maximum substrate moisture 6%
Do not apply if substrate moisture exceeds 6%.

Above dew point + 3°C
Do not apply when the surface temperature is below dew point + 3°C.

FOUR CRITICAL DETAILS OF THE WATERPROOFING



*Bedding **BuMaTAPE** into an expansion joint between the two coats*

Expansion joints, structural joints

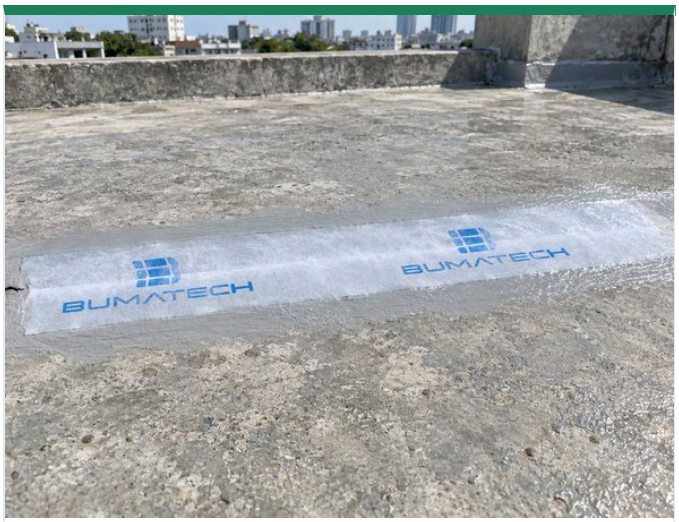
Largest movement, where waterproofing tears first. Bed **BuMaTAPE** as an omega loop over the joint in the wet membrane, clear of the joint base; coat 2 covers the tape edges. Fit backer rod and elastic sealant after curing — do not fill the joint with membrane.



*Laying **BuMaFAB** into a wall-to-floor corner while the first coat is still wet*

Wall-base corners, wall-to-floor corners

Where the membrane is under concentrated stress. Lay **BuMaFAB** while coat 1 is wet, press until the fabric is fully saturated, then apply coat 2 to cover. Wide corners use **BuMaTAPE**.



*A fine floor crack covered with a **BuMaFAB** strip and coated over*

Fine cracks in the substrate

Fabric spreads stress so fine substrate cracks do not telegraph into the membrane. The 5 acrylic and PU products are not for cracks wider than 1.0mm — treat cracks suitably before application.



Pipe wrapped in swelling waterstop and grouted in; filleted wall base

Pipe penetrations, junctions of two materials

Prime fully around pipes and wall bases before waterproofing. Slab penetrations and junctions of two different substrate materials are reinforced with **BuMaTAPE** between the two coats.

CHOOSING THE REINFORCING MATERIAL BY LOCATION

BuMaTAPE
Expansion joints, structural joints, wall-base corners — wide critical details. Rubber core between two fabric layers, elongation ≥ 664%.

BuMaFAB
Wall-to-floor corners, structural edges, fine substrate cracks; broad-area reinforcement on roof decks, balconies, terraces, toilets.

BuMaMESH 70 · BuMaMESH 150
Reinforces cementitious waterproofing, acrylic and PU membranes, levelling mortars, **Skim 2in1 IN** · **Skim 2in1 EX** skim coats.

None of the 4 materials waterproofs on its own — tape lies between two waterproofing coats, mesh is embedded in the waterproofing coat.
Apply only at an ambient temperature of 8 - 35°C, on a dry surface free of dust, dirt, oil and grease.

BUMATECH
Tile Adhesive · Waterproofing · Dry Mix · Construction Chemicals

PRODUCT LINE CATALOGUE · 2027

BUILD BETTER · LIVE GREENER

COMPLETE SYSTEM SOLUTIONS

1.TA · TILE ADHESIVE

Tile after a minimum of 7 days over **K11W**, **K11F**, **FLEX WP 2K**, **BuMaLASTIC**, **PROOF 668**. Tile directly over the waterproofing with a class C2 adhesive or higher: **BuMaSET**, **BuMaBOND**, **BuMaFLEX**, PorceRAPID; **BuMaGREEN** with **BuMaLATEX**, **BuMaFIX** with **LATEX SP**, **BuMaECO** with **CeRaLASTIC**; or **CeRaPOXY TA** epoxy adhesive.

5.MOTA · CONSTRUCTION MORTAR

Masonry, render, screed before waterproofing — **Sc 100**, **Sc 150**, **Sc 200** dry mortar: **PRIMER MOI** after 1 day.

4.SLC · SELF-LEVELLING COMPOUND

Levelling the floor before the finish — **BuMaLEVEL**, **SLU 210.16**.

2.TG · TILE GROUT

Grouting after tiling — **CeRaCOLOR**, **CeRaCOLOR USG**, **CeRaPOXY TG**.

LIST OF THE 18 PRODUCTS IN THE LINE

BuMaLATEX Multi-purpose latex admixture	**LATEX SP** Special bonding admixture	**PRIMER W** Primer for wall waterproofing	**PRIMER F** Primer for floor waterproofing	**PRIMER MOI** Primer for freshly rendered substrates	**K11W** Cement-mixed waterproofing
K11F Cement-mixed waterproofing	**FLEX WP 2K** Flexible waterproofing	**BuMaLASTIC** High-elasticity waterproofing	**WALLCOAT** Elastic acrylic waterproofing	**PROOF 668** High-elasticity waterproofing	**PUA 680** High-elasticity waterproofing
EnerSAV Elastic acrylic waterproofing	**SolarSHIELD** Elastic acrylic waterproofing	**BuMaTAPE** Elastic reinforcing tape	**BuMaFAB** Reinforcing fabric	**BuMaMESH 70** Alkali-resistant fibreglass mesh	**BuMaMESH 150** Alkali-resistant fibreglass mesh

SIX SAFETY NOTES — FOR THE WHOLE LINE

Skin and eyes
Cementitious products are alkaline; acrylic and PU coatings in contact with perspiration may cause skin irritation or allergy; may cause serious eye damage.

Eye contact
Rinse at once under gently running clean water for 10 - 15 minutes, no rubbing; seek medical attention if pain persists.

Protective equipment
Gloves · Safety goggles · Dust mask when mixing or grinding the substrate · Long-sleeved protective clothing.

Spraying primer
Avoid breathing spray mist; work in well-ventilated areas; never direct the spray nozzle towards people.

Reinforcing mesh and tape
Cut fibres irritate the eyes — wear gloves and goggles; dispose of offcuts as construction waste per local rules.

Surplus material and SDS
Not into drains — let dry, dispose of as construction waste. Latest SDS: BUMATECH website.

SINGAPORE GREEN BUILDING COUNCIL MEMBER

VGBC STANDARD MEMBER

Company-level certification — member of SGBC and VGBC

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 reserves the right to update technical information without prior notice — check the latest TDS version on the website before every project.

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