



MENGWEI
ADVANCED MATERIALS

03

— DIVISION 03

PU Waterproofing & Grouting

WATERPROOF COATINGS · GROUTING RESINS · POLYOLS

01 Rigid Foam PU Systems

02 Flexible & Specialty Polyols

03 PU Waterproofing & Grouting

04 Polyurea Spray Systems

05 MS Polymer & Sealants

06 PU Additives & Catalysts

07 Specialty Surfactants & Industrial Chemicals

*Engineered to global specifications — one-stop
polyurethane raw materials & systems.*

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MENGWEI building-waterproofing materials combine the MwPU graphene-modified polyurethane coating range with a complete line of polyurethane chemical grouting resins for leakage sealing and structural reinforcement in tunnels, dams, basements and underground works.

Graphene-modified

MwPU graphene PU coatings for higher tensile strength and durability.

Low-VOC / eco

Solvent-free grades, one with French A+ indoor-air certification.

Hydrophobic & hydrophilic

Full grouting range — water-reactive foaming and gel systems.

Graphene PU Waterproof Coatings

MwPU

Flagship graphene-modified polyurethane membranes for roofing and wet areas.

GRADE	TYPE	TENSILE (MPA)	ELONGATION (%)	NOTES
MwPU-101	Two-component graphene PU	≥2.5	≥450	Low-VOC; roofing, podiums, wet areas
MwPU-102	Single-component graphene PU	≥2.3	≥400	Low-VOC; roofing, balconies, bathrooms
MwPU-103	Solvent-free eco single-component PU	≥2.0	≥500	French A+ indoor-air certified
MwPU-W1	Single-component PU (general)	≥2.0	≥500	General construction waterproofing

PU Grouting Materials

MwGrout

Polyurethane chemical grouting for leakage sealing and structural reinforcement.

GRADE	COLOUR	VISCOSITY (MPA·S)	DENSITY (KG/L)	RATIO A/B	POT LIFE	COMPRESSIVE (MPA)	FOAM EXPANSION	NOTES
MwGrout-H1	A yellowish / B dark brown	A 600–1200 / B 150–400	A 1.0–1.1 / B 1.1–1.2	1 : 1–1.1	≤180 s	≥40	1–1.5×	Hydrophobic closed-cell, water-reactive
MwGrout-H3	A yellowish / B dark brown	600–1200 / 150–400	A 1.0–1.1 / B 1.1–1.2	1 : 1–1.1	≤180 s	≥40	1–1.1×	Hydrophobic, water-insensitive
MwGrout-L2	Yellowish	≤1 000	1.0–1.1	Single	—	—	Gel	Hydrophilic, forms gel with water
MwGrout-H3D	Dark brown	≤1 000	1.1–1.2	Single	—	—	26–32×	Hydrophobic closed-cell, high expansion
MwGrout-H3R	A yellowish /	≤1000 / ≤100	1.1–1.2 / 1.0–1.1	10 : 1	10 s	—	30–40×	Hydrophobic, rapid closed-cell foam



GRADE	COLOUR	VISCOSITY (MPA·S)	DENSITY (KG/L)	RATIO A/B	POT LIFE	COMPRESSIVE (MPA)	FOAM EXPANSION	NOTES
	B dark brown							

Grouting & Waterproofing Polyols

MwEol-G

Base polyols for waterproof coatings and grouting resins.

GRADE	OH VALUE (MGKOH/G)	MOL. WEIGHT	VISCOSITY 25°C (MPA·S)	CHARACTERISTICS
MwEol-G14	14–19	14 000	—	High water-embracing, hydrophilic grouting
MwEol-G37	34–40	4 800	1 500–2 000	High-EO, waterproof grouting

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