

Epoxy Systems for Marble & Stone Processing

A technical comparison of MR. JO systems by application, processing conditions and measured product characteristics. Use it to shortlist; then trial under your actual process conditions before final selection.

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1 Block reinforcement / wrapping

Product	Mix ratio *	Resin visc. (mPa·s) #	Hardener visc. (mPa·s) #	Pot life	Shore D 24 h	Key features
MR. JO MarbleWrap	100:100	40000–70000	260000–380000	70–85 min	85	Lower white pigmentation; standard block reinforcement
MR. JO MarbleWrap-P	100:100	40000–70000	260000–380000	70–85 min	85	Higher white pigmentation; where higher whiteness is required

2 Block vacuum impregnation

Product	Mix ratio *	Resin visc. (mPa·s) #	Hardener visc. (mPa·s) #	Pot life	Shore D 24 h / 48 h	Key features
MR. JO MarbleVaccum	100:33	1800–2200	5–10	10–12 hr	71 / 82	Clear; low viscosity; long pot life gives time for vacuum impregnation

3 Slab mesh backing

Product	Mix ratio *	Resin visc. (mPa·s) #	Hardener visc. (mPa·s) #	Pot life	Shore D 24 h	Key features
MR. JO MarbleBack	100:25	1400–2200	100–250	10–15 min	88	Very fast; quick turnaround and handling; mix in small lots and use quickly

* Mixing ratios are parts by weight (PBW). # Viscosities are Brookfield viscosities at 25 °C.

4 Slab resin treatment

Listed approximately from shorter to longer working time.

Product	Mix ratio *	Resin visc. (mPa·s) #	Hardener visc. (mPa·s) #	Pot life	Shore D 24 h / 48 h	Key features
MR. JO MarbleKot	100:50	800–1200	100–500	30–45 min	84 / 85	Low viscosity; quick curing; no heating or oven required; high gloss
MR. JO MarbleKot-GEM60	100:60	750–900	350–500	35–50 min	76 / 80	Faster curing; high impregnation; high gloss; lower yellowing; heating not required
MR. JO MarbleKot-GEM	100:50	1800–2500	250–450	125–140 min	76 / 81	Fast curing; good working time for seepage; high gloss; no heating required
MR. JO MarbleKot-LUX	100:25	750–900	10–20	6–7 hr	83 / 86	High impregnation; high gloss; high hardness; lower yellowing; faster polishing; heat curing possible
MR. JO MarbleKot-iGLO	100:33	11500–12500	10–15	6–8 hr	83 / 85	Medium viscosity; slow cure; high build; suitable as second coat; thermal / kiln acceleration possible
MR. JO MarbleKot-eGLO	100:33	800–1200	10–20	7–8 hr	80 / 85	High impregnation; faster hardness development; can be heat accelerated; earlier polishing
MR. JO MarbleKot-uGLO	100:33	750–900	10–25	7–9 hr	80 / 86	High impregnation; high gloss; high hardness; faster hardness development; lower yellowing
MR. JO MarbleKot-aGLO	100:33	750–900	10–15	10–12 hr	64 / 82	Low viscosity; high impregnation; slow cure; thermal / kiln acceleration possible

5 Fissure / fine crack filling

Product	Mix ratio *	Resin visc. (mPa·s) #	Hardener visc. (mPa·s) #	Pot life	Shore D 24 h / 48 h	Key features
MR. JO MarbleFill	100:10	800–1200	5–20	55–70 min	78 / 86	Low viscosity; fast curing
MR. JO MarbleFill-P	100:10	800–1200	20–30	65–80 min	78 / 84	Low viscosity; fast curing; lower yellowing during exotherm; slightly longer working time

* Mixing ratios are parts by weight (PBW). # Viscosities are Brookfield viscosities at 25 °C.

6 Site repair / bonding

Product	Mix ratio *	Resin visc. (mPa·s) #	Hardener visc. (mPa·s) #	Pot life	Key features
MR. JO Tecbond-WHT	100:100	20000–35000	10000–15000	50–70 min	White paste-type repair / bonding system
MR. JO Bondkot-WHT	100:50	1500–2500	400–800	30–40 min	Low viscosity; slightly white / translucent; natural-looking joint; suitable for white marble
MR. JO Bondkot-CLR	100:50	1500–2500	400–800	30–40 min	Low viscosity; fast curing; clear crack repair system

7 Technical selection guide

Requirement	Parameter to consider	Products to consider
Deeper impregnation	Lower viscosity / penetration	MR. JO MarbleKot-aGLO, uGLO, LUX, GEM60
Longer working time	Pot life	MR. JO MarbleKot-aGLO, uGLO, iGLO, eGLO
Faster processing	Cure rate / hardness development / handling time	MR. JO MarbleKot, MarbleKot-GEM, GEM60; MarbleBack
Earlier polishing	Hardness development	MR. JO MarbleKot-eGLO, LUX
Higher build	Resin viscosity / application	MR. JO MarbleKot-iGLO
Finish / gloss	Final appearance	MR. JO MarbleKot-uGLO, LUX
Colour retention	Yellowing behaviour	MR. JO MarbleKot-uGLO, LUX, GEM60; MarbleFill-P
No heating available	Room-temperature curing	MR. JO MarbleKot, MarbleKot-GEM, GEM60

IMPORTANT NOTE

Pot life and hardness values are test results and may vary with ambient temperature, batch size, substrate, application conditions and other process variables. Product trials under actual processing conditions are recommended before final product selection.

Need help shortlisting? Talk to MR. JO.

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