

C AND VC SERIES

Nowadays, the particle of the sand used in modern mortars is often not suitable for the restoration of historic buildings. Therefore, KING developed the C and VC series, a selection of mortars that contains coarser sand. All restoration mortars manufactured by KING are available in regular version, C Series or VC Series.

COLOUR MATCHING

Ensuring the perfect colour match is essential to a successful project. At KING, our trained laboratory staff are able to match the designed colour using the best quality pigment available.

The KING ISO 9001:2015 registered plant facilities can produce pre-packaged coloured mortars.

In order to keep pace with jobsites, while giving priority to quality products, we also offer the possibility to colour your mortars on site thanks to the exclusive Colour Plus System offered by KING.

TRAINING CENTRE

At KING we adhere to the principle of knowledge sharing. To learn more about our products or to find out about techniques and good practices in terms of restoration, ask your KING Sales Representative about the next seminar at our training centre.



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THE MASONRY PEOPLE

RESTORE



SELECTION GUIDE FOR MORTARS AND GROUTS FOR THE RESTORATION OF HISTORICAL BUILDINGS



MORTAR SELECTION

YEAR OF CONSTRUCTION	TYPE OF WORK	COMPRESSIVE STRENGTH ^(a)	RECOMMENDATIONS
BEFORE 1900	BEDDING	LOW-MEDIUM	HLM-500 or PHL-500
		MEDIUM-HIGH	HLM-500 or RosenMix 500
	REPOINTING	LOW-MEDIUM	HLM-350 or PHL-350
		MEDIUM-HIGH	HLM-500 or RosenMix 350
FROM 1900 TO 1940	BEDDING	LOW-MEDIUM	HLM-500 or MasonMix
		MEDIUM-HIGH	MasonMix 600 or RosenMix 500
	REPOINTING	LOW-MEDIUM	HLM-350 or MasonCare 300 or MasonCare 1258
		MEDIUM-HIGH	RosenMix 350 or HLM-500
FROM 1940 TO 1975	BEDDING	LOW-MEDIUM	HLM-500 or MasonMix
		MEDIUM-HIGH	MasonMix 600 or RosenMix 500
	REPOINTING	LOW-MEDIUM	MasonCare 300 or MasonCare 1258
		MEDIUM-HIGH	HLM-500 or MasonMix 600
FROM 1975 TO TODAY	BEDDING	LOW-MEDIUM	King 1-1-6
		MEDIUM-HIGH	King 2-1-9
	REPOINTING	LOW-MEDIUM	MasonCare 300 or MasonCare 1258
		MEDIUM-HIGH	King 1-1-6 or King 2-1-9

^(a) **Low to medium compressive strength:** regular walls.

Medium to high compressive strength: Parapets, Foundation wall, Chimney, load bearing walls, stairs.

PRODUCT	APPLICATION	BINDER	AVERAGE COMPRESSIVE STRENGTH ^(b)		MINIMUM CURE
			7 days	28 days	Humide
HLM-350	Repointing	Hydraulic Lime	1.5MPa (217 Psi)	2.5 MPa (362 Psi)	3-7 Days
HLM-500	Bedding	Hydraulic Lime	1 MPa (150 Psi)	2.2 MPa (320 Psi)	3-7 Days
HLM-500	Repointing	Hydraulic Lime	More than 3MPa (435 PSI) at 28 days ^(c)		3-7 Days
King 1-1-6	Bedding	Lime-Cement	3.5 MPa (435 Psi)	6.5MPa (943 Psi)	None
King 1-1-6	Repointing	Lime-Cement	More than 7 MPa (1015 Psi) at 28 days ^(c)		3-7 Days
MasonCare 300	Repointing	Lime-Cement		3.0 MPa	3-7 Days
MasonCare 1258	Repointing	Lime-Cement	2 MPa (290 Psi)	4 MPa (Psi)	3-7 Days
MasonMix	Bedding	Lime-Cement	1.5 MPa (217Psi)	2.5 MPa (362 Psi)	None
MasonMix 600	Bedding	Lime-Cement	3 MPa (435 Psi)	4.5 MPa (735 Psi)	None
MasonMix 600	Repointing	Lime-Cement	More than 6 MPa (870 Psi) at 28 days ^(c)		3-7 Days
RosenMix 350	Repointing	Natural Cement	1 MPa (145 Psi)	3.5 MPa (508 Psi)	3-7 Days
RosenMix 500	Bedding	Natural Cement	3 MPa (435 Psi)	8 MPa (1160 Psi)	3-7 Days
RosenMix 500	Repointing	Natural Cement	More than 9 MPa (1305 Psi) at 28 days ^(c)		3-7 Days

^(b) **Compressive Strength:** Results obtained in laboratory, on site result may vary.

^(c) Final resistance will depends on many factors.

^(d) Time for cure depends on many factors, especially Winds and Temperature.

SELECTION CRITERIA FOR MORTARS

Several principles must be respected when it comes to successful restoration projects. Among the most important, are the following:

- Avoid introducing a raw material that was not part of the original building;
- In terms of compressive strength, the new mortar should be of equal or lower value than the original mortar;
- In terms of vapour transmission, the new mortar must have equal or higher values than the original mortar.

Other factors to consider include the following:

- The time of the year when the restoration work will take place;
- The building element to be restored (i.e. Chimney, buttress, foundation wall, etc.) ;
- The time frame, work-force, budget, etc.

GROUT SELECTION

YEAR OF CONSTRUCTION	RECOMMENDATIONS
Before 1900	King HL-5
From 1900 to 1975	King HL-5 or King RPL-6
From 1975 to today	King RPL-6 or King LS

PRODUCTS	BINDER	COMPRESSIVE STRENGTH AT 28DAYS
King HL-5	Hydraulic lime	5MPa (725 Psi)
King RPL-6	Air lime and Portland cement	6MPa (870 Psi)
King LS	Portland Cement	10 MPa (1450 Psi)

NOTICE

Please also note that King Packaged Materials Company is pleased to participate in your project, by submitting its recommendations. However, the recommendations made are of a general nature and King Packaged Materials Company cannot be held responsible for the implementation of these recommendations. The full and sole responsibility in this regard rests with the professional in charge of the project.