



SAINT-ASTIER

LIME, LIFELONG EXCELLENCE

COULINEX®

LIME GROUTING AND INJECTION



RESTORATION RANGE

CONSOLIDATION BINDER AND MORTAR

THE + BENEFITS

- ◆ BASED ON SAINT-ASTIER LIME®
- ◆ NO CEMENT OR POZZOLANIC ADDITION
- ◆ STABLE GROUT
- ◆ VERY LITTLE SETTLING
- ◆ INJECTABLE INTO ALL TYPES OF CAVITIES
- ◆ COMPATIBLE WITH PLASTER & MASONRY

AREAS OF USE

- > **COULINEX® L** can be used on its own for fine cracks or mixed with sand of any particle size for larger cavities.
- > **COULINEX® M** is used for cavities or cracks up to 5 mm.

PACKAGING

- > **COULINEX® L**: 25 kg bag
40 bags per pallet (1T)
- > **COULINEX® M**: 20 kg bag
56 bags per pallet (1T120)

COMPOSITION

- > **COULINEX® L**: natural hydraulic lime, fillers and specific additives.
- > **COULINEX® M**: natural hydraulic lime, fillers, sand less than 1 mm and specific additives.

SHELF LIFE & GUARANTEE

One year from production date if protected in the original packaging and stored in dry conditions.

Manufacturer civil responsibility.



SUITABLE SUPPORTS

- Old brick, stone and timber frame supports.

SUBSTRATE PREPARATION

- Moisten the cavities the day before grouting.
- Make sure that the masonry joints are tightly sealed so that the grouting goes not spill over.
- For the injection, holes 20 to 30 mm in diameter and inclined at 45° should be drilled to a depth of around 90% of the thickness of the wall. These holes should be spaced at intervals equal to the thickness of the wall.
- The operation will be repeated at heights varying from 1 to 2 times the thickness of the wall.
- Mix mechanically (preferably with a whisk) for 2 to 4 minutes.
- The mixture can be mixed in a cement mixer for a maximum of 5 minutes.
- The amount of water can be adjusted according to the porosity of the substrate.

GROUT PREPARATION - APPLICATION

COULINEX® L (binder) 25 kg bag	
Binder for fine grouting	
	= 30 litres of grout

COULINEX® M (mortar) 20 kg bag	
Grouting mortar	
	= 14,5 litres of grout
	= 7,2 litres of grout

COULINEX® L (binder) 25 kg bag + sand	
Binder for casting cavities	
	= 50 litres of grout
	= 13 litres of grout

- Mix mechanically until a homogeneous consistency is obtained.
- Workability: approximately 3 hours depending on weather conditions.
- The water content may vary depending on the substrate, but the mixing time remains constant.

The aggregates that can be combined range from 0/0.5 mm for the finest to 0/4 mm for the coarsest. The maximum diameter of the sand must be 4 times smaller than the size of the voids to be grouted.

- **Technical Implementation Documents (DTMO)** are available at : www.stastier.co.uk.

TECHNICAL CHARACTERISTICS

COULINEX® L (Binder) 25 kg bag

- Powder bulk density According to NF EN 459-2 : 0.580 kg / litre
- Particle size (NF 1015-1)
Retained 80 µm : 3 to 7%.
Retained at 200 µm : 0 to 1%.
Retained at 500 µm : 0%.
- Apparent density paste According to NF EN 1015-6 : 1.5 Kg / l
- Setting time (EN 196-3) : 21 hours
- Compressive strength
28 days - NF EN 1015.11, EN 196-1 : 1.35 MPa
90 days - NF EN 1015.11 : 4.9 MPa
- Flexural strength
28 days - NF EN 1015.11 : 0.3 MPa
90 days - NF EN 1015.11 : 1.4 MPa

COULINEX® M (Mortar) 20 kg bag

- Powder bulk density According to NF EN 459-2 : 1 kg / litre
- Particle size (NF 1015-1) Retained 80 µm : 65 to 75%.
Retained at 200 µm : 60 to 70%.
Retained at 500 µm : 5 to 10%.
Retained at 500 µm : 0%.
- Apparent density paste According to NF N 1015-6 : 1.9 Kg / l
- Setting time (EN 196-3) : 15 hours
- Compressive strength
28 days - NF EN 1015.11, EN 196-1 : 1.5 MPa
90 days - NF EN 1015.11 : 3.5 MPa
- Flexural strength
28 days - NF EN 1015.11 : 0.6 MPa
90 days - NF EN 1015.11 : 1.2 MPa

WEATHER CONDITIONS

Use between 8°C and 30°C.



25 kg COULINEX® L bag
20 kg COULINEX® M bag



10-litre
water
bucket



10-litre sand
bucket



EXPECTED PERFORMANCES FOR COULINEX L

DOSAGE	100% COULINEX + WATER	50% COULINEX / 50% SAND 400µ-200µ + WATER	75% COULINEX / 25% SAND 400µ-200µ + WATER	
SO ₄ content %	0	0	0	Should not be above 0.5%
Organic content %	0	0.2	0.2	Should not be above 1%
Bulk density (g/l)	579	996.5	894	Powder only
Water addition (g)	875	375	600	Per kg. of powder
Fluidity Marsh cone 10mm	24	13	16	Should be between 13 and 25 seconds
Stability * % at 3h	1.05	0.25	0.2	Should be < 3% at 3 hours
Stability * % at 24h	1	0	0	Should be NIL at 24 hours

Comp. Strength (N/mm ²)	1.35	1.43	3.17	28 days cured 7 days in the mould and dried before testing
Tens. Strength (N/mm ²)	0.31	0.55	1.07	
Bulk density (g/l)	1383	1768	1605	

Comp. Strength (N/mm ²)	4.87	4.48	5.18	90 days
Tens. Strength (N/mm ²)	1.32	2.27	2.91	
Bulk density (g/l)	1381	1828	1632	

Comp. Strength (N/mm ²)	5.18	5.20	6.0	180 days
Tens. Strength (N/mm ²)	1.41	1.42	1.63	
Bulk density (g/litre)	1378			