

ST.ONE®

BY SAINT-ASTIER®

TECHNICAL DATA SHEET

ST.ONE® Original

REPAIR MORTAR FOR LIMESTONE
AND BRICK

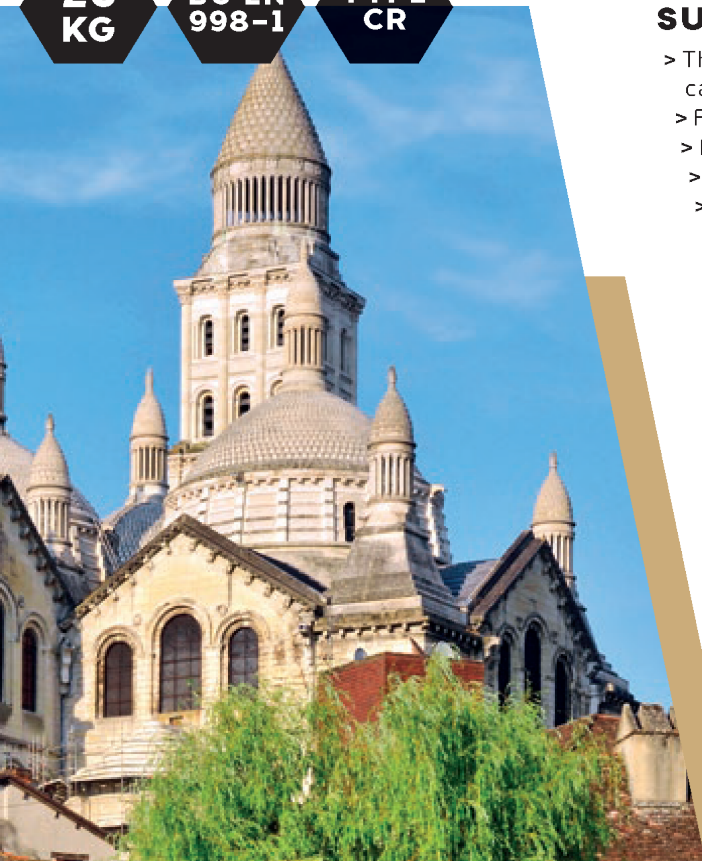
THE BENEFITS

- + BASED ON SAINT-ASTIER® LIME
- + CAN BE USED FOR REPAIRS UP TO 10 CM
- + OVER 30 YEARS EXPERIENCE
- + CAN BE REMODELLED FOR UP TO 48 HOURS

25
KG

BS EN
998-1

TYPE
CR



**DEDICATED
TRAINING**

SUITABLE FOR

- > Thick reconstruction of facings, carved or sculpted architectural ornaments
- > Filling and repairing spalls
- > Façade mouldings
- > Imitation stone cladding
- > Brick repairs

PACKAGING

- > 25 kg bag
- > 40 bags per pallet (1T pallet)

PRODUCT COMPOSITION

Ready-mix mortar based on Saint-Astier® hydraulic lime, pigments, selected aggregates and specific additives.

SHELF LIFE & GUARANTEE

One year from the date of manufacture, protected from moisture and in its original, unopened packaging. Manufacturer civil Responsibility.

by



SAINT-ASTIER

LIME, LIFELONG EXCELLENCE

ST.ONE® Original

REPAIR MORTAR FOR LIMESTONE AND BRICK

SUITABLE SUPPORTS

All natural stone (BS EN 1467 August 2012) and sound mineral masonry units (tensile strength > 0,3 MPa) , for the creation of imitation stone mouldings and fascias.

UNSUITABLE SUPPORTS

All gypsum plaster, paint, wood, steel, glass, earth and hemp concrete substrates.

SUBSTRATE PREPARATION

- > They must be sound, clean and dust-free, with no traces of oil, organic growth, loose or damaged parts (sound stone must be purged to a thickness of at least 5 mm).
- > It is necessary to delimit the area being repaired (square or rectangular) in a dovetail shape to ensure that the repair blends in well with the substrate and its surroundings, while respecting the shape of the fixtures.
- > For repairs thicker than 3 cm, mechanically fix a metal wire reinforcement (brass, copper, stainless steel, etc.) suited to the weight and shape of the repair.
- > The surface must be adequately dampened down and allowed to reabsorb running water as it can affect the bonding of the St.One.

PREPARING THE MORTAR

- > Mix manually or mechanically (300 to 400 rpm).
- > Mix for at least 3 minutes to obtain a firm, workable consistency.
- > The water dosage and mixing time must be constant.

WATER CONTENT OF MORTAR
MECHANICAL MIXING
AVERAGE CONSUMPTION

ST.ONE® ORIGINAL	
1	+ 5 Litres of water
3 minutes minimum	
1.7 to 1.8kg / m ² / mm thickness	



MORTAR APPLICATION

- > Tools required: trowel, float, cat's tongue trowel (spatula), template and all the tools of the stonemason.
- > The mortar is applied in successive passes of 1 to 3 cm, fresh on fresh. Where metal reinforcement is in place, this must be covered with a minimum of 1 cm of mortar and a maximum of 4 cm. If necessary, formwork can be used after the plaster has been applied. The various passes, with the exception of the last, must be left rough.
- > Minimum finished thickness of 5 mm.

FINISHES

- > The mortar can be shaped for up to 48 hours, depending on weather conditions, using suitable tools.
- > Once the stone has stiffened sufficiently, you can use stonemason tools such as a cutter, chisel, rasp or saw to restore the final appearance of the original stone.
- > The patina and uniformity of repairs can be improved by applying lime water, patina or lime paint.

NOTE: maintenance is the same as for natural stone.

WEATHER CONDITIONS

Use between 8°C and 30°C. In hot or windy weather, dampen surfaces and maintain humidity by spraying moderately for 48 hours prior to application.



SAINT-ASTIER
LIME. LIFELONG EXCELLENCE

Chaux de Saint-Astier
28 bis route de Montanceix - La Jarthe - 24110 Saint-Astier - France
www.stastier.co.uk

ST. ONE® Original

REPAIR MORTAR
FOR LIMESTONE AND BRICK



PERFORMANCE

ESSENTIAL SPECIFICATION	Typical value	Units
Dry density	1 350 to 1 450	g/L
Wet density	1 600 to 1 700	g/L
Compressive strength at 28 days	5 to 7	MPa
Flexural strength at 28 days	1,5 to 2,5	MPa
Elasticity modulus	5,500 to 7,500	MPa
Shrinkage	<0,9	mm/m
Vapour permeability	13	μ
Granulometry max.	1	mm
Capillarity	0,08-0,09	kg/m ² .min ^{1/2}

HEALTH & SAFETY

- > Special care should be taken to prevent dust from becoming airborne. The use of ventilation and wet- methods are recommended. Always use appropriate safety protections, including respiratory protection, protective clothing and eye protection.
- > Consult safety data sheet for each product before use. Health and Safety information can be found at technical_support@saint-astier.com.

by

