

# ST.ONE®

BY SAINT-ASTIER®

TECHNICAL DATA SHEET

## ST.ONE® Step

STONE REPAIR MORTAR FOR HORIZONTAL SURFACES (STEPS, THRESHOLDS, ETC.)

### THE BENEFITS

- + RESPECTS THE AESTHETICS OF THE STONE
- + CAN BE USED FOR REPAIRS UP TO 8 CM
- + OVER 30 YEARS EXPERIENCE
- + CAN BE CUT FOR UP TO 48 HOURS

30  
YEARS OF  
ST.ONE®



DEDICATED TRAINING

25  
KG

NF EN  
998-1

TYPE  
CR

#### SUITABLE FOR

- > Reconstruction of steps
- > Repairs to sills, coping stones, window sills, copings, etc.
- > Repair of paving and stone slabs
- > Balustrade 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.

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**SAINT-ASTIER**

LIME, LIFELONG EXCELLENCE





## STONE REPAIR MORTAR FOR HORIZONTAL SURFACES (STEPS, THRESHOLDS, ETC.)

### 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).
- > To ensure good adhesion, particularly in the case of sealed stone (low capillarity), we recommend applying a two-component epoxy resin in accordance with the manufacturer's recommendations.
- > The repair area (square or rectangular) should be marked out 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.
- > When repairs exceed 10 cm<sup>3</sup> or a thickness of more than 3 cm, a non-corrosive reinforcement (brass, etc.) must be embedded in the tread.
- > The minimum thickness must be 10 mm and the maximum thickness 3 cm in one pass.
- > Formwork may need to be laid before installing St.ONE® Step in the case of overhang repairs.
- > It is not possible to set a thickness in «whistle».
- > In the case of patch repairs, the repair must be marked with a «notch» so that an even thickness of St.ONE® Step can be applied.
- > The surface must be adequately dampened down and allowed to reabsorb running water as it can affect the bonding of St.One.

### PREPARING THE MORTAR

- > Mix the mortar until you obtain a paste to avoid over-mixing and the formation of lumps.

ST.ONE® STEP	
<b>WATER CONTENT OF MORTAR</b>	1 + 4/5 litres of water
<b>MECHANICAL MIXING</b>	3 minutes minimum
<b>AVERAGE CONSUMPTION</b>	1.5 kg / m <sup>2</sup> / mm thickness*

\*Consumption may vary depending on the condition of the substrate and application conditions.

### MORTAR APPLICATION

- > Trowel, spatula (open application time: 1 hour)
- > During the first 12 hours, the mortar can be shaped with a trowel, sponge and/or brush. It will then be worked with stonemason tools (cutter, chisel, etc.).



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### PERFORMANCE

ESSENTIAL SPECIFICATION	Typical value	Units
Dry density	1200 to 1300	g/L
Wet density	1600 to 1700	g/L
Compressive strength at 28 days	8 to 10	MPa
Flexural strength at 28 days	2 to 4	MPa
Elasticity modulus	13 000 to 15 000	MPa
Shrinkage	<0,9	mm/m
Vapour permeability	17	μ
Granulometry max.	1	mm
Capillarity	0,02-0,04	kg/m <sup>2</sup> .min <sup>1/2</sup>

### 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](mailto:technical_support@saint-astier.com).