

**SAINT-ASTIER**

LIME, LIFELONG EXCELLENCE

ST.ONE® SANDSTONE

SURFACE REPAIR MORTAR



RESTORATION

SURFACE REPAIR MORTAR

Based on Saint-Astier® lime, with specific aggregate and additives, ST.ONE® SANDSTONE is a ready-to-mix mineral mortar specially designed to imitate, repair and preserve sandstones.

STANDARD PACKAGING

Bag of 5kg, 20kg or 25kg,
Pallet of 1 000 kg max.

COLOUR

The colour of the product, if required, can be made to order in the factory or prepared on site by incorporating mineral pigments to replicate the colour of the stone. Before adding the pigments, mix with a little water to form a homogenous putty.

STORAGE AND SHELF LIFE

Store material in a dry area away from direct sunlight. Ambient storage conditions should be in the range of 5°C to 30°C. Average shelf life is 1 year in original, unopened packaging.

WARRANTY

Manufacturer Civil Responsibility.

**BS-EN
998-1****TYPE
CR**



SUITABLE BACKGROUNDS

The correct specification for any render/mortar should consider the nature and condition of the background, site exposure, time of year (weather maps / rainfall and wind driven rain indices are available from the BRE) and type of finish required. The supports must be healthy, clean, dustless and free from stains of de-bonding agents such as oils, grease and paints.

ST.ONE® SANDSTONE, for both internal and external repairs. For low absorption substrates, use a mix volume 1:2 ST.ONE® SANDSTONE slip with 2 volumes of water and 10% volume resin of the water used.

For repairs where the thickness is greater than 3cm, a stainless steel or brass reinforcement made with sufficient nails and a wire mesh for the buildup is required.

ST.ONE® SANDSTONE is recommended for the repair / imitation of Sandstone. (See UNE BS 12670: 2019 for definition of Sandstone).

APPLICATION

> Preparation of the mortar:

Add 19% Water (approximately 4.75 liters of clean water per bag of 25kg).

Mix manually, or with the help of a low-speed mixer, (350-450 rpm), for 3 to 5 minutes maximum, until a homogeneous paste is obtained.

Precautions:

Do not apply ST.ONE® SANDSTONE to a frozen or exceedingly hot substrate. The applied mortar must be protected from extreme heat, freezing, excessive wind, direct sunlight, and rain. Ambient temperature range should be 5°C to 30°C. With high temperatures and / or wind, moisten the support the day before and again on the day of application, approximately one hour before.

Do not add bonding agents to ST.ONE® SANDSTONE, in case need it, contact Saint Astier® Technical Dept. Minimum thickness of mortar application is 5 mm.

> Application method:

Apply the paste strongly against the support with the help of a trowel.

For thicknesses greater than 3cm, a reinforcing stainless steel frame should be fixed depending on the weight and dimension to be repaired.

If the thickness of the repair is greater 5cm, load successive layers of 2 to 4cm leaving 6 to 24 hours between each coat.

In the first 12 hours, ST.ONE® SANDSTONE can be molded with a trowel, a sponge and/or a brush. Once set, the product can be worked using stonemason tools.


> Maintenance and protection:

When ST.ONE® SANDSTONE is uniformly dry, a lime shelter coat or a lime paint can be applied.

TECHNICAL DATA

> Average results

- Dry density: 1,550 kg.l-1 NF EN 1015
- Fresh mortar density: 1,700 g.l-1 NF EN 1015
- Compressive strength at 28 days: 9 MPa NF EN 1015
- Flexural strength at 28 days: 5 MPa NF EN 1015
- Elasticity modulus: 14 000 MPa
- Shrinkage at 28 days: <1 mm/m
- Permeability: $\mu = 14$
- Granulometry: 0/1 mm

 05	
CHAUX ET ENDUITS DE SAINT-ASTIER La Jarthe - 24110 SAINT-ASTIER www.stastier.co.uk	
ST.ONE SANDSTONE- COLOURED RENDER (CR) N° DoP-ST.ONE SANDSTONE-001 EN 999-1	
Fire reaction	Class A1
Compressive strength	CS IV
Adherence	$\geq 0,15 \text{ N/mm}^2$ - FP: A B C
Capillarity	W0
Permeability	$\mu = 5/15$ (tabulated value)
Thermal conductivity	$\lambda = 0,77$ (tabulated value)

> Recommendation:

Before starting, always try on a small test area.

> Health and Safety:

Follow the instructions on the safety data sheet and wear appropriate equipment (gloves, mask, safety shoes...).

