

Portland cement mixes.	1:1:6	1:2:9
Permeability (Vapour exch.Gr of air x m ² x hour x mmHg)	0.23	0.25
Lime Mortar Mixes	1:3	2:5>
Permeability (Vapour exch.Gr of air x m ² x hour x mmHg)	0.63	0.71
Hydraulic Lime Mortar Mixes (NHL 5 / NHL2)	1:3	1:3
Permeability (Vapour exch.Gr of air x m ² x hour x mmHg)	0.52	0.71

St.One[®] has a vapour permeability figure of 0.75

	Tensile Strength N/mm ²	Compressive Strength N/mm ²	Elasticity Moduli MPa
7 Days	2.20	6.20	
28 Days	2.38	7.25	7,690

Tests on hardened mortar (water addition at 18.7%)			
Capillarity	2.06 gr.cm ² . √2 min	LOW	Tested at 28 days
Water permeability	0.25 ml.m.day	LOW	Tested at 28 days
Vapour permeability	0.75 gr.m ² .hour.mmHg	VERYHIGH	Tested at 28 days

The Modulus of elasticity is a key component in the ability of the material to flex with the stress imposed during curing and later through thermal, physical movement etc. the lower the number the greater the degree of flexibility. A cement lime sand mix of 1:1:6 ratio has a modulus of elasticity at 28 days of 16,200 compared with our stone repair mortar at 7690 and lime putty in a 1:3 ratio with sand of approximately 9,000.

The compressive strength of our stone repair mortar 7.25 N/mm² sufficiently high enough for the material to be robust enough for general conditions is considerably lower than most masonry units including soft-fired handmade bricks that usually have a compressive strength around 8-14 N/mm². Sandstones fall in the range 20-100N/mm². Our stone repair mortar is not suitable for step or tread repairs. For step and tread repairs Litholiant is a powder to which aggregates similar to the original stone is added. This will make a material suitably robust for aggressive wear conditions.

CE 05	
CHAUX ET ENDUITS DE SAINT-ASTIER La Jarthe - 24110 SAINT-ASTIER - France	
COLOURED RENDER (CR) N° DoP-ST.ONE-001 EN 998-1	
Reaction to fire	Class A1
Resistance to compression	CS III
Adhérence	≥ 0,3 N/mm ² - FP : A B C
Water absorption	W0
Water vapour permeability	μ = 0/15 (tabulated value)
Thermal conductivity	λ = 0,76 (tabulated value)
Durability	N/A

