

For 7N and 3.6N – BS EN 459.1 (HL 3.5)

Specifically designed to provide today's builder with a mortar that does not develop a strength above the one of the masonry units. Elasticity, good water retention, setting time, low capillarity, excellent breathability are the other notable properties of mortars made with Tradeco®. Its low density produces a high yield.

Main Data	
Retained at 90µm	< 1%
Retained at 200µm	< 0.5%
Dry density (powder)	< 600 g/l
Whiteness index	Y = 88 (very good reproduction of sand colour)
Tests on mortar prepared according with BS EN459-1 and 459.2 With ISO 679 sand	
Compressive strength	7 days 5.5N/mm ² – 28 days 7 N/mm ²
Flexural strength	7 days 1.3 N/mm ² - 28 days 2 N/mm ²

Test on mortar prepared with 0-3mm common sand at 1:2 binder : sand ratio (1bag+80 litres of sand)	1 : 2.5 1 bag +100 litres sand
Wet density	1600 g/l
Setting time	2 - 4h 30m
Water retention	87%
Compressive strength	7 days 3.4 N/mm ² – 28 days 4.5N/mm ²
Flexural strength	0.95 N/mm ² – 1.3 N/mm ²
Bonding strength (Tensile)	0.37 N/mm ² – 0.5 N/mm ²
Density	7 days 1550 g/l – 28 days 1500 g/l
Shrinkage	7 days 0.72 mm.m – 28 days 0.88 mm.m
Thermal conductivity 28 days	λ 0.49 W/m.K tabulated EN 1745
Expansion coefficient 28days	>1 mm/m
Elasticity Moduli 28 days	5000 MPa
Capillarity 28 days	0.74 g/dm ² x min ^{1/2}
Vapour Permeability	.8 g.m ² /hour.mmHg
Vapour Resistance	μ 0.115

Suitable for

Breathable solutions, renders, bedding, pointing, finishing and for saltpeter treatment. Also suitable for hemp plasters, for brick construction and low density masonry. Before starting, always try on a small test area.

Dosages

1) 7 N/mm² masonry or above

Building mortar: 1 bag + 80 litres of sand

Stipple coats on renders (cast on or sprayed on): 1 bag + 70 litres of well graded sharp sand 0-3mm

Renders/plaster base coat

Manual application: 1 bag + 90 litres of well graded sharp sand

Spray application: 1 bag + 80 litres of well graded sand

2) 3.6N masonry units

Building mortar 1 bag + 100 litres of well graded sand

Water addition: 24 litres per bag of 25 kg binder with dry sand. *This can vary depending on moisture of site sands*

Mixing

Up to 5 minutes in a conventional drum mixer.

Application

Application by spray gun is possible. Please consult us.

Working temperatures

Not below 8°C or above 30°C. Make sure that high suction materials are thoroughly dampened before application. Avoid rapid drying due to high temperatures or strong winds by curing with a light water mist several times a day if necessary. See *Protecting Lime Mortar*.