

TRADECO ® A binder for 7N and 3.6N masonry units mortars BS EN 459.1 HL3.5

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	1700 g/l
Setting time	2 - 4h 30m	2 – 4h 30m
Water retention	87%	85%
Compressive strength	7 days 3.4 N/mm ² – 28 days 4.5N/mm ²	2.55 / 3.35
Flexural strength	0.95 N/mm ² – 1.3 N/mm ²	0.71 N/mm ² / 0.97 N/mm ²
Bonding strength (Tensile)	0.37 N/mm ² - 0.5 N/mm ²	0.28 N/mm ² /0.37 N/mm ²
Density	7 days 1550 g/l – 28 days 1500 g/l	7 days 1575 g/l - 28 days 1550 g/l
Shrinkage	7 days 0.72 mm.m – 28 days 0.88 mm.m	0.7 - 0.8
Thermal conductivity 28 days	λ 0.49 W/m.K tabulated EN 1745	λ 0.49 W/m.K tabulated EN 1745
Expansion coefficient 28days	>1 mm/m	>1 mm/m
Elasticity Moduli 28 days	5000 MPa	4500 MPa
Capillarity 28 days	0.74 g/dm ² x min ^{1/2}	0.8 g/dm ² x min ^{1/2}
Vapour Permeability	.8 g.m ² /hour.mmHg	0.85g.m ² /hour.mmHg
Vapour Resistance	µ 0.115	µ 0.11

MORTARS dosages and use

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

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 time: 5 – 6 minutes

Packaging: 25 kg bags (40 bags per pallet)

Shelf life: 12 months properly stored

See Also: [Health and Safety Information](#) for Tradeco ®

The above details are given for general information purposes and do not constitute a specification.

For further Guidance, contact your St Astier Distributor.

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