

C2TES2

EN 12004

EUROPEAN NORM

DOVA-FLEX 906 (C2TE-S2)

Ultra-deformable, high-performance cement based
tile adhesive (C2TES2), for fixing large formats
and tiling on facades.

C2



ISO 9001:2015
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QUALITY MANAGEMENT SYSTEM
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ISO 14001:2015
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ISO 45001:2018
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About this product

is a high-performance cement-based tile adhesive (C2TES2), formulated with cement, selected aggregates, special additives and synthetic resins to improve workability, water retentivity, open time and adhesion. Ultra-deformable. No vertical slip. Allows adjustment of tiles. Especially suitable for fixing porcelain tiles and natural stone, large formats and facade tiling. Indoor environment quality.



Technical data sheet	
Appearance	Powder
Color	White
Bulk density	≈ 1150 Kg/m³
Density of the mix	≈ 1600 Kg/m³
Grading	0-600 µm
Mixing water,%	± 31%
Pot life	≈ 2 h
Adjustability time	≥ 30 min
Grouting	≈ 24 h
Coverage	≈ 3,5 Kg/m² (single spread technique)
	≈ 5,0 Kg/m² (double spread technique)
Tariff code	3824.50.90.00
Final performances	
Type	C2TES2
Initial tensile adhesion strength	≥ 1,0 N/mm²
Tensile adhesion strength after water immersion	≥ 1,0 N/mm²
Tensile adhesion strength after heat ageing	≥ 1,0 N/mm²
Tensile adhesion strength after freeze/thaw cycles	≥ 1,0 N/mm²
Open time	30 min
Slip	≤ 0,5 mm
Transverse deformation	≥ 5,0 mm
Total VOCs (28 days)	< 500 µg/m³

Technical Data Sheet (TDS)



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Benefits

High resistance to water and thermal shocks.
Maximum deformability.
High water retentivity.
High mechanical strength.
Extended open time. Allows adjustment of tiles.
Easy workable. Highly thixotropic.
High tensile bond strengths. More durability.
No vertical slip.
Especially suitable for fixing large formats, industrial and commercial applications (heavy traffic...) and underfloor heating or under tile warming.
Very low VOCs emissions.

Use

Laying of ceramic tiles of low/medium/high absorption in interior and exterior situations to walls and floors. Especially suitable for laying low absorption ceramic tiles (porcelain, marble, natural stone) in exterior floors and walls. Ideal for underfloor heating or under tile warming and industrial and commercial applications (heavy traffic...) on floors.

Substrates

is suitable for:

Cement based substrates.
Cement based renders /plasters and screeds.
Cement based waterproofing membranes.
Concrete floors.
Plasterboards.
Compact natural stone, underfloor heating and existing ceramic substrates.

Preparation of substrates

Substrates must be clean, compact and free of substances that reduce adhesion such as dust, oil, grease and with no loose material. Uneven areas must be corrected with suitable smoothing and finishing products. Substrates must be free from any rising damp and have already completed the curing period of hygrometric shrinkage. Dampen substrates with water to cool down if they should be too warm, in case of wind or over absorbent substrates and wait until the thin layer of water disappears. Do not use on gypsum-based plasters or paint.

Instructions for use

Mix manually or mechanically with 6,75 – 7,75 l per bag of clean water until a homogeneous, creamy and lump-free paste is obtained. Let the mix stand for 5 minutes before application.

Small tiles must be fixed using a notched trowel of 6×6 mm. For tiles sizes greater than 400 cm², a notched trowel 8×8 mm must be used. Spread the mixed product onto the substrate to a maximum surface area of 1 m² or no more than can be tiled within 30 minutes in normal conditions. Unfavorable environmental conditions (strong sunlight, drying wind, high temperature as well as a highly absorbent substrate), could drastically reduce this time to a few minutes. Bed the tiles firmly into the adhesive with a slight sliding and/or twisting action, to ensure a good contact and complete coverage.

It is good practice to lift an occasional tile after fixing, to verify that the required contact is being achieved. Back of the tile must be completely wet.



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Recommendations

- On gypsum substrates, apply primer before , to avoid contact between gypsum and the cement of the adhesive, avoiding adverse reactions.
- Do not apply on plastic, metal or wood.
- Do not apply below 5°C or above 30°C.
- Do not apply when there is risk of frost, rain, strong wind or direct sunlight.
- On floors with a surface area greater than 30 m² , it is recommended to leave separation or sealing joints filled with a deformable material.
- On interior floorings larger than 15 m², it is advisable to keep a free perimeter expansion joint between the floor and the wall or pillar, hidden by a skirting board (of approximately 5 mm).
- On façades and external cladding, the material should always be fixed with anchors or mechanical fixings, when some of the following conditions apply: format above 900 cm², one side of the large piece is larger than 60 cm, weight above 40 kg/m² or height of tiling up than 3 meters.
- According to UNE 138002 recommendations, leave joints with a minimum thickness of:
 - 1,5 mm in the case of tiles of good dimensional quality (table 27 annex C), indoors, on stable supports and on floors without mechanical requirements
 - 3 mm in the case of large format tiles, on stable substrates and intermediate layers and on floors without mechanical requirements
 - 5 mm in the case of tiles with little dimensional regularity, on all types of supports, indoors or outdoors, or in cases of coatings with special features.
- Existing ceramic tile/natural stone: requires preliminary treatment.
- Underfloor heating/warming: the heating must be off, and should be turned on gradually at least 7 days after tiling and grouting.
- The temperature, ventilation, and absorption of the substrate and covering materials , may vary the adhesive workability and setting times.

Packing

packed 20/25 kg plastic lined paper bags.
Storage: when stored unopened in a cool dry place, shelf life is 12 months from date of manufacture.



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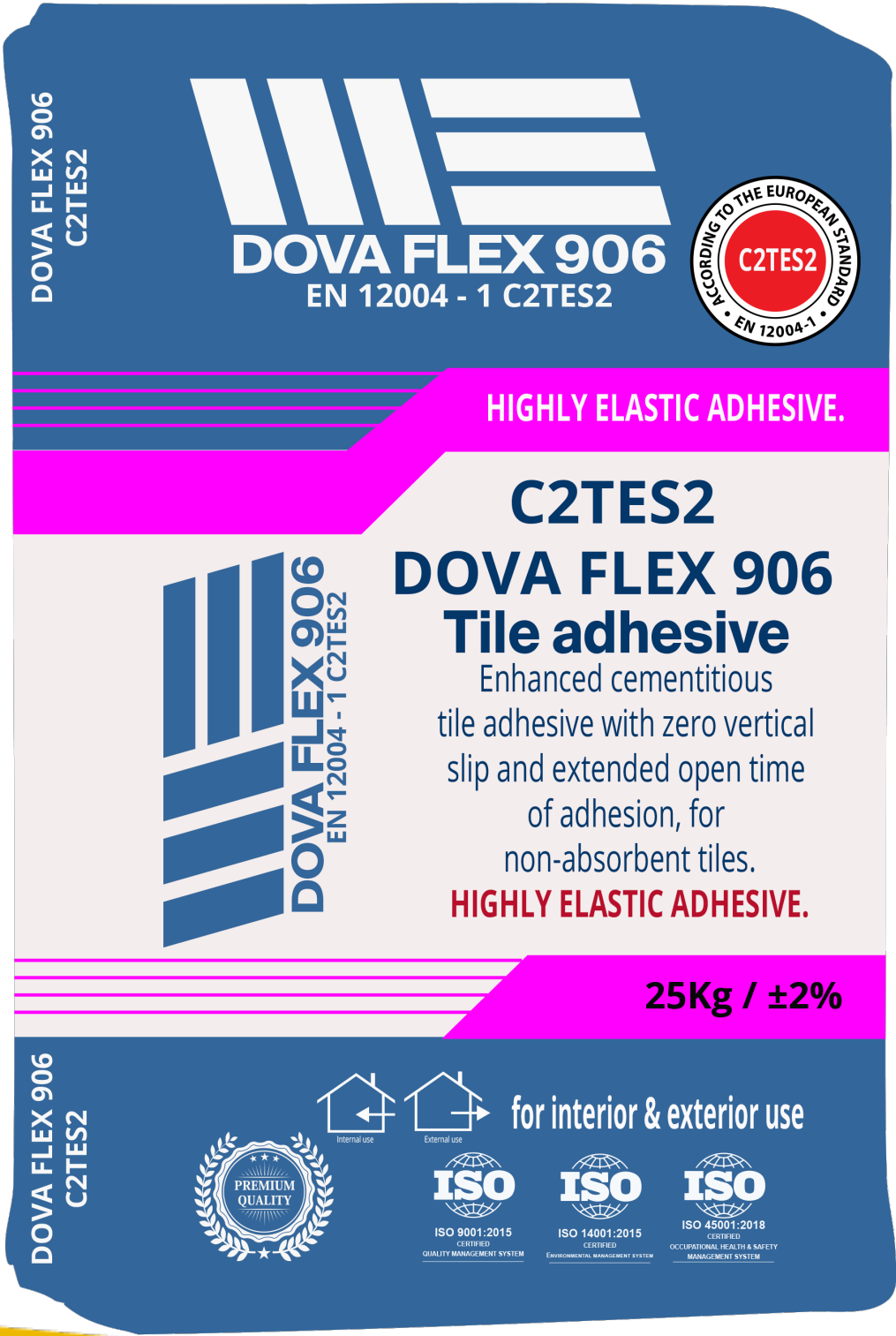
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