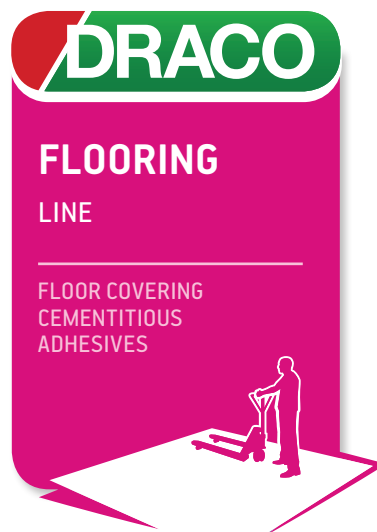


# DRAKOLLA FORTE C1 TE

CEMENTITIOUS ADHESIVE FOR FLOOR AND WALL CERAMIC TILES WITH EXTENDED OPEN TIME AND RESISTANCE TO VERTICAL SLIP



**DRAKOLLA FORTE C1 TE** is a conventional (1) one-component cementitious adhesive (C) resistant to vertical slip (T) and with extended open time (E) for floor and wall covering with different materials such as ceramic tiles and mosaics, marble and stone materials etc. Suitable for both interior and exterior covering, **DRAKOLLA FORTE C1 TE** can be applied with thickness up to 10 mm. It is a C1 TE adhesive pursuant to standard EN 12004.

## ADVANTAGES

- ✓ **EASY TO USE:** **DRAKOLLA FORTE C1 TE** does not drip and can be easily applied by notched spatula even on a vertical surface.
- ✓ **NO VERTICAL SLIP:** **DRAKOLLA FORTE C1 TE** is slip-resistant and is suitable for vertical installation, including heavy wall tiles.
- ✓ **EXCELLENT ADHESION:** **DRAKOLLA FORTE C1 TE** adheres very well to all materials normally used in the construction industry.
- ✓ **HIGH ADJUSTMENT TIME:** **DRAKOLLA FORTE C1 TE** maintains good workability and makes it possible to "adjust" the covering within 40 minutes from application.
- ✓ **FROST-RESISTANT AND LOW VOC EMISSIONS.**

## USES

**DRAKOLLA FORTE C1 TE** is a C1 TE cementitious adhesive ideal for:

- ✓ Interior and exterior bonding of floors and wall coverings made of ceramic, mosaics, stone, porcelain stoneware, clinker and terracotta, even with diagonal pattern or top down tiling and without using spacers.
- ✓ Installation on cementitious substrates, two-coat plaster.

## SUITABLE SUBSTRATES

- ▶ Sand-cement screeds or screeds made with special binders (DRACOCER/DRACOCER PRONTO).
- ▶ Cementitious or lime-based plaster, plasterboard, concrete block walls.
- ▶ Existing floors and walls made of ceramic, mosaics, stone, porcelain stoneware, clinker, terracotta.
- ▶ Premixed products and cementitious mortars.
- ▶ Gypsum-based and anhydrite substrates – only after primer application.



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## SUBSTRATE PREPARATION

**DRAKOLLA FORTE C1 TE** must be applied on a clean and dry surface having mechanical strength and free from moisture, oils, paints, waxes, loose parts which are detaching. Any level differences must be levelled out to restore a flat substrate. Concrete and/or sand-cement-based screeds must have cured for at least 28 days, except in case of use of special screed binders (DRACOCER and DRACOCER PRONTO) which dry faster. Plasters must cure for at least 7 days per cm of thickness. In case of gypsum-based plasters, anhydrite screeds, powdery substrates or substrates with high absorbency, it is necessary to apply one coat of primer at least 6 hours before adhesive application. Non-absorbent substrates must be cleaned using specific products or prepared mechanically by shot peening or scarification.

## MIX PREPARATION

Mix **DRAKOLLA FORTE C1 TE** with clean water in a suitable container by means of a low speed mixer to prevent lumps. Add **DRAKOLLA FORTE C1 TE** little by little to achieve a homogeneous mix consistency. Wait for about 5-10 minutes and then mix again before use until a homogeneous and soft mix is obtained. You should use approx. 7.5 litres of water per 25 kg-bag of **DRAKOLLA FORTE C1 TE**.

## APPLICATION

**TILE LAYING:** Use a notched trowel suitable for the type of covering to be installed. Spread a first thin layer of **DRAKOLLA FORTE C1 TE** with the smooth side of the trowel to boost adhesion to the substrate, reduce water absorption and entrap any dust particles, then achieve the desired thickness by using the notched side. Tap every tile to boost bonding of the whole surface with the adhesive. Spread the adhesive on a surface large enough so that the covering can be laid within the open time indicated. Under normal temperature and humidity conditions, **DRAKOLLA FORTE C1 TE** has an open time of about 30 minutes. Please note that the open time may be shorter in bad environmental, temperature and humidity conditions such as excessive exposure to sun or drafts, excessive humidity or very absorbent substrate. When installing the covering, make sure no surface film has formed on **DRAKOLLA FORTE C1 TE**; if this is not the case, retrowel the adhesive to refresh it. Do not wet **DRAKOLLA FORTE C1 TE** when a film has formed on the surface. Tap the tiles properly to ensure perfect wetting. In exterior applications, protect the covering laid with **DRAKOLLA FORTE C1 TE** from rain, sun and frost for at least 5-7 days. Fill the joints between tiles after at least 24 hours from floor and/or wall covering installation.

## CONSUMPTION

### CERAMIC COVERING BONDING

- mosaic and small formats: approx. 2-3 kg/m<sup>2</sup>
- medium-sized formats: approx. 4-5 kg/m<sup>2</sup>
- tiles with profiled back or irregular surfaces: approx. 5-7 kg/m<sup>2</sup>

## WARNINGS

- Do not use **DRAKOLLA FORTE C1 TE** on metal, wood and plastic materials (vinyl flooring, linoleum, rubber).
- Do not use **DRAKOLLA FORTE C1 TE** on gypsum, unless previously treated.
- Do not use **DRAKOLLA FORTE C1 TE** on concrete or cellular concrete.
- Do not use **DRAKOLLA FORTE C1 TE** on substrates in the presence of rising damp.
- Do not use **DRAKOLLA FORTE C1 TE** on substrates subjected to high shrinkage, movements or strong vibrations.
- Do not use **DRAKOLLA FORTE C1 TE** to smooth out the substrates.
- Open time and setting of the adhesive may vary depending on substrate and environmental conditions like temperature, humidity, ventilation, sun exposure.

## PACKAGING AND STORAGE

**DRAKOLLA FORTE C1 TE** is packed in:

- 25 kg bags

If kept in its original packaging and properly stored in a dry, sheltered place, the product maintains its characteristics for one year.



### HOT WEATHER PRECAUTIONS

- ▶ Store **DRAKOLLA FORTE C1 TE** away from direct sunlight.
- ▶ Work in the cooler hours of the days.
- ▶ Do not work at an ambient temperature above +35°C.



### COLD WEATHER PRECAUTIONS

- ▶ Do not apply the product if the substrate temperature is below 5°C.
- ▶ Start to work in the warmer hours of the day.
- ▶ Protect from frost and rain during the first 24 hours.

## PRODUCT CHARACTERISTICS

APPEARANCE	Powder
COLOURS	Grey - White
PARTICLE SIZE	< 0.5 mm
CONSUMPTION	approx. 2-5 kg/m <sup>2</sup> COVERAGE PER BAG: 5.0-12.5 m <sup>2</sup>
PACKAGING	25 kg bags
SHELF LIFE	12 months

## APPLICATION SPECIFICATIONS 20°C - 50% R.H.

MIX WATER	30% ± 2 (approx. 7.5 l per 25 kg bag)
CONSISTENCY	paste
pH	> 12
WORKABILITY at 20°C	approx. 8 hours
APPLICATION TEMPERATURE	+5°C to +35°C
OPEN TIME - EN 1346	> 30 minutes
ADJUSTING TIME	approx. 40 minutes
TILE GROUTING ON WALL	after 6-8 hours
TILE GROUTING ON FLOOR	after 24-48 hours depending on environmental conditions
OPEN TO TRAFFIC	after 24-48 hours depending on environmental conditions
TOTAL HARDENING	14 days

## PERFORMANCE CHARACTERISTICS 20°C - 55% R.H.

PERFORMANCE CHARACTERISTIC	TEST METHOD	REQUIREMENTS ACCORDING TO EN 12004	PRODUCT PERFORMANCE
<b>TENSILE ADHESION STRENGTH</b>			
- initial (at 28 days)			> 0.5 N/mm <sup>2</sup>
- after immersion in water	EN 1348	≥ 1 N/mm <sup>2</sup>	> 0.5 N/mm <sup>2</sup>
- after heat ageing			> 0.5 N/mm <sup>2</sup>
- after freeze-thaw cycles			> 0.5 N/mm <sup>2</sup>
<b>ALTRE CARATTERISTICHE</b>			
RESISTANCE TO SOLVENTS AND OILS			excellent
RESISTANCE TO HUMIDITY			excellent
RESISTANCE TO AGEING			excellent
ACID AND ALKALI RESISTANCE			poor
TEMPERATURE RESISTANCE			-30°C to +90°C
FLEXIBILITY			poor
TOXICITY (Legislative decree 03.02.97, no. 52 and subsequent amendments)			no
FLAMMABILITY (Legislative decree 03.02.97, no. 52 and subsequent amendments)			no

**Legal notes** - SLCMP version of 01.03.2017 - Draco Italiana s.p.a. has adopted the parameters indicated in this data sheet and the related standards for the calculation of the values and technical data contained herein. Customers shall verify that this data sheet and the values indicated herein apply to their product batch and have not been superseded by later editions. If in doubt, verify that the sheet corresponds to the one available on the website [www.draco-edilizia.it](http://www.draco-edilizia.it) at the time the sales contract was executed and/or by previously contacting the Technical Department. Any suggestions on the use of the Products provided by our personnel either orally or in writing upon the Customer's request do not constitute additional obligations to the purchase contract and do not imply a contractual obligation for the company. They are based on our experience and limited to the current state of practical and/or scientific knowledge. They are not binding for the client or for the installer. It is the Customer's responsibility to test our products and verify they are suitable for the type of application and use envisaged.