

DRAKOLLA FACILE C1

CEMENTITIOUS ADHESIVE FOR CERAMIC TILE FLOORING



DRAKOLLA FACILE C1 is a conventional (1) one-component cementitious adhesive (C) for floor and wall covering with different materials such as ceramic tiles and mosaics, marble and stone materials etc. It is suitable for both interior and exterior covering with medium absorbency and maximum size of 900 cm². **DRAKOLLA FACILE C1** is a C1 adhesive pursuant to standard EN 12004.

ADVANTAGES

- ✓ **EASY TO USE:** **DRAKOLLA FACILE C1** can be easily applied by notched spatula even on a vertical surface. No dripping and the tiles won't slide down.
- ✓ **EXCELLENT ADHESION:** **DRAKOLLA FACILE C1** adheres very well to all materials normally used in the construction industry.
- ✓ **HIGH ADJUSTMENT TIME:** **DRAKOLLA FACILE C1** maintains good workability and makes it possible to "adjust" the covering within 60 minutes from application.
- ✓ **FROST-RESISTANT AND LOW VOC EMISSIONS.**

USES

DRAKOLLA FACILE C1 is a C1 cementitious adhesive ideal for:

- ✓ Interior and exterior bonding of floors and wall coverings made of ceramic, mosaics, stone, porcelain stoneware, clinker and terracotta.
- ✓ Spot bonding of insulation materials like polystyrene, polyurethane, cork, sound absorbing panels, mineral wool etc. on cementitious substrates and cement-based waterproofing membranes.

SUITABLE SUBSTRATES

- ▶ Sand-cement screeds or screeds made with special binders (DRACOCEM/DRACOCEM 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 FACILE C1 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 (DRACOCEM and DRACOCEM 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 treat the surface preliminarily with **COLLACEM** at least 6 hours in advance. Non-absorbent substrates must be cleaned using specific products or prepared mechanically by shot peening or scarification.

MIX PREPARATION

Mix **DRAKOLLA FACILE C1** with clean water in a suitable container by means of a low speed mixer to prevent lumps. Add **DRAKOLLA FACILE C1** little by little to achieve a homogeneous mix consistency. Wait for about 10 minutes and then mix again before use until a homogeneous and soft mix is obtained. You should use approx. 6.5 l of water per 25kg-box of **DRAKOLLA FACILE C1**. A higher quantity of water may reduce the product performance.

APPLICATION

TILE LAYING: Use a notched trowel suitable for the type of covering to be installed. Spread a first thin layer of **DRAKOLLA FACILE C1** 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 FACILE C1** has an open time of about 20 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 FACILE C1**; if this is not the case, retrowel the adhesive to refresh it. Do not wet **DRAKOLLA FACILE C1** 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 FACILE C1** from rain, sun and frost. Fill the joints between tiles after at least 24 hours from floor and/or wall covering installation.

SPOT BONDING OF INSULATION BOARDS: to bond sound absorbing panels or insulation boards, spot glue **DRAKOLLA FACILE C1** using a trowel or a spatula; foresee as many bonding spots as required and of proper thickness depending on surface flatness and panel weight. Do not exceed the open time of the adhesive. Please note that heavy slabs require more bonding spots; some slabs may also require provisional support structures that can be removed once **DRAKOLLA FACILE C1** has started to set.

CONSUMPTION

CERAMIC COVERING BONDING	- mosaic and small formats: approx. 2-3 kg/m ² - medium-sized formats: approx. 4-5 kg/m ²
SPOT BONDING OF INSULATION BOARDS	- gypsum and cellular concrete boards: approx. 1.5 kg/m ²

WARNINGS

- Do not use **DRAKOLLA FACILE C1** on metal, wood and plastic materials (vinyl flooring, linoleum, rubber).
- Do not use **DRAKOLLA FACILE C1** on gypsum, unless previously treated.
- Do not use **DRAKOLLA FACILE C1** on concrete or cellular concrete.
- Do not use **DRAKOLLA FACILE C1** on substrates in the presence of rising damp.
- Do not use **DRAKOLLA FACILE C1** on substrates subjected to high shrinkage, movements or strong vibrations.
- Do not use **DRAKOLLA FACILE C1** 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 FACILE C1 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 FACILE C1** 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 ² COVERAGE PER BAG: 5.0-12.5 m ²
PACKAGING	25 kg bags
SHELF LIFE	12 months

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

MIX WATER	27% ± 2 (approx. 6.5 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	> 20 minutes
ADJUSTMENT TIME	approx. 60 minutes
MAKING JOINTS ON THE WALL	in 6-8 hours
MAKING JOINTS ON THE FLOOR	in 24-48 hours depending on environmental conditions
OPEN TO TRAFFIC	in 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
TENSILE ADHESION STRENGTH			
- initial (at 28 days)			> 0.5 N/mm ²
- after immersion in water	EN 1348	≥ 1 N/mm ²	> 0.5 N/mm ²
- after heat ageing			> 0.5 N/mm ²
- after freeze-thaw cycles			> 0.5 N/mm ²
OTHER CHARACTERISTICS			
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 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.