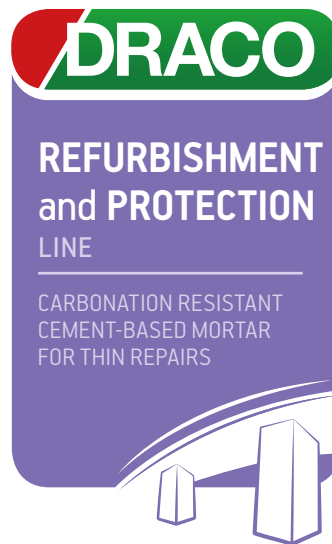


CONCRETE FINISHER 2

TWO-COMPONENT CEMENTITIOUS SKIM COAT FOR
SMOOTHING AND THIN REPAIRS (1-4 mm THICKNESS)

High protection against environmental aggression and carbonation



CONCRETE FINISHER 2 is a two-component premixed cement mortar based on specially selected fine aggregates, synthetic polymers and special admixtures to be mixed with micronized synthetic latex for increased bond. **CONCRETE FINISHER 2** is very compact and resistant to freeze-thaw cycles and chemical attack. Its high bond strength and low permeability to carbon dioxide and water make **CONCRETE FINISHER 2** ideal for smoothing and protecting concrete structures and finishing any repair cycles using FLUECO mortars.

ADVANTAGES

The chemical and physical properties and mechanical strengths of **CONCRETE FINISHER 2** ensure durable and reliable repair. The product has the following characteristics:

- ✓ **HIGH RESISTANCE TO CARBONATION:** **CONCRETE FINISHER 2** features low capillary porosity and creates a barrier to water and carbon dioxide thus protecting the structure from carbonation.
- ✓ **HIGH CONCRETE BOND STRENGTH:** **CONCRETE FINISHER 2** has a specific formula that guarantees high bond strength and easy application.
- ✓ **RESISTANCE TO FREEZE-THAW CYCLES:** **CONCRETE FINISHER 2** is resistant to freeze-thaw cycles and extreme weather conditions.
- ✓ **HIGH RESISTANCE TO AGGRESSIVE ENVIRONMENTS:** **CONCRETE FINISHER 2** is resistant to weather, sulphates, smog and industrial pollution.
- ✓ **EASY TO APPLY:** **CONCRETE FINISHER 2** can be applied fast and easily using a trowel.

As the product contains a synthetic resin, the **mortar has a low modulus of elasticity and can create a more flexible coating** than standard concrete.

USES

CONCRETE FINISHER 2 is specially formulated to guarantee high bond to structures where the substrate cannot be saturated with water. Ideal for levelling the substrate, maintenance or repair work in industrial and urban areas where air pollutants cause damage to concrete and corrosion to reinforcing bars. **CONCRETE FINISHER 2** can be used for:

- ✓ thin repair and skim coating of pillars, beams, slabs, concrete surfaces in general and industrial flooring;
- ✓ spray application in waterproofing work, tunnels, tanks, reservoirs, basements etc. in the presence of wet concrete but no water infiltration;
- ✓ harbour structures and any other structures in contact with water.

Note: **CONCRETE FINISHER 2** being a cement-based product, it cannot be applied on plaster substrates.



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PREPARATION

SUBSTRATE CLEANING

- ▶ **Remove any loose parts** from the area to be treated, including grout laitance, by sandblasting or high-pressure water blasting.
- ▶ **Remove spots, efflorescence or soaked-in stains** of oil, grease, paint, lime, dust, dirt etc.
- ▶ **The surface to be treated must be solid and perfectly clean.**
- ▶ **Deteriorated surfaces:** if needed, remove the damaged layer by using mechanical means until you reach a compact concrete layer. Repair and restore volume by applying FLUECO mortar after treating the reinforcement bars with DRACOSTEEL.

MIXTURE PREPARATION

Mixing of **CONCRETE FINISHER 2** shall be done in a cement mixer. Put the content of component B into the cement mixer, then pour component A (25 kg bag) slowly and mix for at least 4-5 minutes until a homogeneous and lump-free consistency is achieved. Verify that the entire product has been properly mixed and there is no powder left on the walls or at the bottom of the container. To prepare small amounts of product use a suitable container following the mixing ratio recommended. In this case use a low-speed mixer to minimise air entrapment.



HOT WEATHER PRECAUTIONS

- ▶ Store **CONCRETE FINISHER 2** away from direct sunlight.
- ▶ Carry out work in the early hours of the morning.
- ▶ Cover the surface during the first 24 hours by possibly applying wet coverings.
- ▶ In case of hot weather, workability time is reduced.



COLD WEATHER PRECAUTIONS

- ▶ Store **CONCRETE FINISHER 2** in a heated storage space.
- ▶ Make sure that the substrate is not frozen.
- ▶ Start to work late in the morning.
- ▶ Cover the surface with waterproof and insulated sheeting to protect it from frost.

APPLICATION

CONCRETE FINISHER 2 can be applied by trowel in layers of max 4 mm thickness. For increased thickness apply several layers. Apply the product on a clean and roughened surface as indicated in the previous paragraph. **CONCRETE FINISHER 2** finish time is 30 minutes in summer and approx. 1 hour in winter.

Smooth the concrete finisher once it has hardened (approx. 30 minutes at 20°C) with the trowel or a wet sponge float.

CURING

To ensure wet curing of the product even in case of dry weather or exposure to wind or strong sunlight, it is recommended to use the curing film PROBETON CURING N.

PACKAGING AND STORAGE

CONCRETE FINISHER 2 is packed in:

- 25 kg bags (A) + 5 kg cans (B)

If properly stored in a sheltered, dry place in its original container, the product maintains its properties for 12 months.

PRODUCT CHARACTERISTICS

APPEARANCE AND COLOUR	Grey powder (A) - White liquid (B)
MAXIMUM DIAMETER OF AGGREGATES	0.45 mm
PACKAGING	25 kg (A) + 5 kg (B)
STORAGE	12 months

APPLICATION SPECIFICATIONS +20°C and 50% RH

CONSISTENCE - UNI EN 13395	thixotropic
BULK DENSITY - UNI EN 1015-6	approx. 2000 kg/m ³
pH	approx. 12.5
ALLOWED APPLICATION TEMPERATURE	+5°C to +35°C
THICKNESS	1÷4 mm
POT LIFE - WORKABILITY	60 minutes
SURFACE DRYING TIME (20°C - 50 % RH - 2 mm thick and dry substrate)	30 minutes
WAIT TIME BEFORE PAINT APPLICATION (ACRIFLEX or ACRIPRIMER)	On surfaces previously repaired with FLUECO mortars: 7 days Finishing only with CONCRETE FINISHER 2 and application of ACRIFLEX: 3 days
CONSUMPTION	approx. 2 kg/m ² per mm of thickness

PERFORMANCE CHARACTERISTICS (20° C and 50% RH)

PERFORMANCE CHARACTERISTIC	TEST METHOD	REQUIREMENTS ACCORDING TO EN 1504-2 - COATING (C) PI - MC - IR PRINCIPLES	PRODUCT PERFORMANCE
CONCRETE BOND STRENGTH (MC 0.40 substrate - EN 1766)	EN 1542	For stiff systems with no traffic: ≥ 1.0 MPa with traffic: ≥ 2.0 MPa	> 2 MPa after 28 days
WATER-VAPOUR PERMEABILITY	EN ISO 7783-2	class I - $S_d < 5$ m class II - $5 \text{ m} \leq S_d \leq 50 \text{ m}$ class III - $S_d > 50 \text{ m}$	Class I ($S_d < 5 \text{ m}$) permeable to water-vapour
CARBON DIOXIDE PERMEABILITY	UNI EN 1062-6	$S_d > 50 \text{ m}$	$S_d > 50 \text{ m}$
CAPILLARY WATER ABSORPTION AND LIQUID WATER PERMEABILITY	UNI EN 1062-3	$W < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$	$w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
THERMAL COMPATIBILITY measured as bond according to EN 1542 on MC 0.4 concrete (UNI EN 1766) - Freeze-thaw cycles in the presence of de-icing salts	EN 13687-1	For stiff systems with no traffic: ≥ 1.0 MPa with traffic: ≥ 2.0 MPa No swelling, cracking or delamination	Meets specification
REACTION TO FIRE	EN 13501-1	Euroclass	E
OTHER CHARACTERISTICS			
COMPRESSIVE STRENGTH	EN 12190	None	> 15 MPa after 1 day > 27 MPa after 7 days > 38 MPa after 28 days
FLEXURAL STRENGTH	EN 196-1	None	> 2 MPa after 1 day > 5 MPa after 7 days > 7 MPa after 28 days
SULPHATE RESISTANCE (15 cycles)	ASTM C-88	None	No deterioration

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.