



FINOMIX®
DRY MORTARS

Technical Data Sheet

Release 1: 09/09/2021

flow 1·10 rapid

**fast-setting
self-levelling
polymer-modified
cementitious
floor screed**

(for 1-10mm thick layers)

- Fast setting and drying
- High mechanical strengths
- Applied up to 10mm thick layers
- Suitable for underfloor heating
- Extremely smooth final surface



FLOW 1•10 RAPID

fast-setting self-levelling polymer-modified cementitious floor screed

(for 1-10mm thick layers)

DESCRIPTION

Fast-setting and drying, self-levelling mortar, based on cementitious binders, for durable floors from 1 to 10mm thick.

It provides a totally level final surface with very high resistance to abrasion and mechanical strengths, as well as excellent bonding to the substrate.

Available for light foot traffic after 2-3 hours.

Classified as CT-C40-F10-AR1 type cementitious screed mortar according to European standard EN 13813.

APPLICATIONS

Ideal for levelling and smoothing floors that will be covered with tiles, carpet, wooden or plastic floor, epoxies, etc. Suitable for levelling over underfloor heating systems and for areas subject to heavy pedestrian (shopping centers, hotels, etc.) and vehicle traffic (warehouses, parking, etc.). Also suitable as final layer in areas such as basements, lofts and warehouses. Applied in 1-10mm thick layers. Suitable for indoor applications.

PROPERTIES / ADVANTAGES

- Excellent self-levelling performance.
- Rapid development of mechanical strengths and drying.
- Smooth and abrasion resistant final surface.
- Very high mechanical strengths.
- No shrinkage.
- Excellent adhesion to the substrate.

HARMONIZED STANDARDS / REGULATIONS

- **EN 13813:** Cementitious screed material, type CT-C40-F10-AR1.
- **Regulation (EC) No. 305/2011:** CE Marking with Declaration of Performance (DoP): FLOW110RAPID/CPR-7-13/036/10-2013.

APPLICATION INSTRUCTIONS

- The substrate must be dry, clean and free of dust, grease or other loose materials.
- Dense absorptive substrates like concrete and high-strength cementitious floor screeds should be primed with **PRIMER FP•31** according to the dilution instructions described in the relevant Technical Data Sheet.

The application of **FLOW 1•10 RAPID** follows after the primed area has dried (2-3 hours).

- Weak cementitious substrates must be primed with **EPOXY•PRIMER** followed by a fully broadcast of quartz sand with a particle size of 0.4-1.0 mm on the fresh layer of the primer. The primed area is then left to dry for 12-24 hours and afterwards the excess quantity of quartz sand is wiped off the surface before the application of **FLOW 1•10 RAPID**.
- Existing floors with ceramic or porcelain tiles, terrazzo, natural stones, etc., must be first evaluated for integrity. Afterwards the surface must be cleaned with a proper detergent and primed with the acrylic adhesion-promoting primer **FINO•CONTACT** or with water-based epoxy primer **EPOXY•PRIMER**. The application must take place after the primed surface has dried completely.
- The content of the bag (25kg) is added into 5.00-5.50 kg of clean water under continuous stirring until a uniform, lump-free, fluid mass is formed. The mixture should be left to settle for about 2-3 minutes and then stirred again slightly. It is advised to use a low revolution mixer (~300 rpm).
- **FLOW 1•10 RAPID** can also be applied with an automatic pumping machine.
- The mixture has to be applied within the next 20-30 minutes (at +22°C). Higher temperatures reduce and lower temperatures increase the workable time of the mix.
- Spread the mixture on the surface with a notched trowel or with a flat spatula with adjustable pins, at the desired thickness. The material then self-levels.
- In order to remove the entrapped air, treat the screed's fresh surface with a spiked roller.
- In case a second layer is necessary, it should be applied as soon as the previous one is ready for foot traffic (3 hours). If the first layer has dried completely, then it should be primed with **PRIMER FP•31** diluted 1:3 with water, before any other consecutive layer.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

RECOMMENDATIONS

- Temperature during application should be between +5°C and +35°C.
- Don't mix the product with dirty or salty water, cement, aggregates or admixtures.

- Do not exceed the recommended maximum dosage of water as it can lead to cracking and detachments.
- Do not apply outdoors.
- Do not apply to substrates subject to deformation.
- Do not add water to the **FLOW 1•10 RAPID** mixture when it has started to set.

TECHNICAL CHARACTERISTICS

PRODUCT CHARACTERISTICS

Appearance	cementitious powder
Colour	grey
Bulk density	1.40 ±0.05 kg/lt

APPLICATION CHARACTERISTICS (+23°C / 50% R.H.)

Mixing ratio	20-22% b.w. (5.0-5.5 kg water/25kg bag)
Mixing time	at least 3 min
pH	> 11
Density	1.50 ±0.05 kg/lt
Pot life	20-30 min (22°C)
Setting time	45-60 min (22°C)
Application temperature	minimum: +5°C / maximum: +35°C
Set for foot traffic	after 2-3 hours
Consumption	approximately 1.5 kg/m ² for a 1mm thick layer

PERFORMANCE CHARACTERISTICS

Compressive strength (EN 13892-2)	after 24 hours	≥ 15.0 N/mm ²
	after 7 days	≥ 34.0 N/mm ²
	after 28 days	≥ 42.0 N/mm ²
Flexural strength (EN 13892-2)	after 24 hours	≥ 4.0 N/mm ²
	after 7 days	≥ 7.0 N/mm ²
	after 28 days	≥ 10.0 N/mm ²
Adhesion strength after 28 days (EN 13892-8)		≥ 1.5 N/mm ²
Abrasion resistance (EN 13892-4)		AR 1
In use temperature		from -30°C to +90°C

Note: Measurements were conducted in a laboratory environment. The varying conditions present on-site (temperature, humidity, ventilation, substrate absorbency) may affect the material's properties.

SAFETY PRECAUTIONS

- The product contains cement which has an alkaline reaction with water and is classified as irritant.
- Always wear appropriate personal protective equipment for eyes and skin (protective clothing, gloves and goggles).
- If skin contact occurs, rinse well with plenty of clean water.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- Consult product's Safety Data Sheet for further instructions on safety handling.
- **PRODUCT FOR PROFESSIONAL USE.**

PACKAGING - STORAGE

Available in:

- 25kg paper bags.

Storage: 12 months from production date in original, sealed packaging, protected from direct sunlight and moisture.

LEGAL NOTICE

The technical characteristics and recommendations for the use and application of the **FINOMIX** range of products are based on the knowledge and experience of the company. The above information shall be considered merely indicative and subject to confirmation after long-term practical application. For this reason, anyone who intends to use the product must

ensure that it is suitable for the envisaged application. Since the specific site conditions during the applications are beyond the control of our company, the user alone is fully responsible for any consequences deriving from the use of the product. **FINOBETON S.A. (FINOMIX)** has the right to modify the properties of its products without prior notice. This release voids any previous publications issued for this technical specifications sheet.