

AP 71 FLEX

White and grey adhesive with medium elasticity, for floors and coverings in interiors and exteriors



Exteriors and Interiors



Sack



Notched trowel

Composition

AP 71 FLEX is a dry premixed adhesive made from white or grey Portland cement, selected sands and specific additives to improve workability and adhesion.

Supply

- Special sacks with protection against damp of 25 kg approx.

Use

AP 71 FLEX is used for cementing ceramic tiles, gres, porcelain gres, natural stones, if not susceptible to staining and moisture, etc. onto lime and cement based plasters, long-standing dry cementitious floor screeds and long-standing concrete floors with no deflection.

Substrate preparation

The application surface must be free from dust, dirt, etc. Any traces of oil, grease, wax etc. must be removed beforehand, as well as any powdery or loose sections.

Mixing and application

Add about 7.5 litres of clean water to each 25 kg sack of AP 71 FLEX and mix by hand or with a mechanical agitator to obtain a mix of the consistency required and without lumps. Then wait 10 minutes before application. Mix again and apply the adhesive using a notched trowel. The paste will be workable for 8 hours.

It is not necessary to wet the tiles before application.

The tiles are laid by applying gentle downward pressure and then tapping them carefully so that the entire surface is in perfect contact with the adhesive. Any re-aligning of the tiles after laying must be carried out within 50 - 60 minutes. If the adhesive forms a film on the surface, do not moisten it but go over it again with the notched trowel.

When cementing tiles for exteriors or laying floors that are polished on site, also apply a layer of adhesive onto the back of the tile.

Before cementing tiles onto plasterboard walls, always treat the surface with PRIMER DG 74.

For applications on old ceramic flooring only use tiles with a size up to 900 cm². In any case make sure that the old covering is bonded and clean before applying the product. Do not apply on walls or floors affected by strong movements or vibrations.

Sealing the joints

After the tiles have been laid using AP 71 FLEX, wait 1 day before sealing the joints.

Use FC 830 GF 0-4 for joints from 0 to 4 mm, FC 869 GM 2-10 for joints from 2 to 10 mm, FC 872 GM 2-20 for joints from 2 to 20 mm and FC 854 GG 4-15 for joints from 4 to 15 mm. In case a high chemical resistance is required, use epoxide based joint grout FE 838 (for joints from 3 to 15 mm), Blucolors (for joints from 2 to 20 mm) or Blucolors Zero (for joints from 0 to 2 mm). Seal joints (expansion and perimeter joints, corners between floor and covering, edges, etc.) with FASSASIL NTR (neutral-reticulation silicone sealant) or SYLAN 290 (silane-terminated polymer adhesive-sealant with low modulus of elasticity, moisture curing).

Warnings

- Fresh adhesive should be protected from direct sun and rain for at least 24 hours.

AP 71 FLEX must only be used in its original state, without the addition of other materials.

Storage

Store in a dry place for no longer than 12 months.

Quality

AP 71 FLEX is subjected to careful and constant testing in our laboratories. The raw materials used are rigorously selected and checked.

Technical Data

Appearance	white or grey powder
Specific weight of the powder	approx. 1300 kg/m ³
Maximum thickness	10 mm
Grading	< 0.6 mm
Mixing water	approx. 31%
Yield	approx. 3-4 kg/m ²
Maturing time	approx. 10 minutes
Specific weight of wet mix	approx. 1650 kg/m ³
Density of hardened adhesive	approx. 1500 kg/m ³
pH	> 12
Duration of the mix at +20°C	approx. 8 hours
Application temperature	from +5°C to +35 °C
Open time	approx. 30 minutes
Tile adjustment time	approx. 60 minutes
Waiting time before grouting the joints	approx. 1 day
Ready for normal use	after at least 14 days
Flexural strength after 28 days	approx. 6 N/mm ²
Compressive strength after 28 days	approx. 14 N/mm ²
Modulus of elasticity after 28 days	approx. 7500 N/mm ²
Flexibility	medium
GEV Classification	GEV EMICODE EC 1 ^{Plus} - very low emission
Complies with the EN 12004 standard	C2TE

Standard EN 12004/1348/1346/1308 C2TE	Certified value for white colour	Certified value for grey colour	Requirement to meet standard
Initial tensile adhesion strength	approx. 2.1 N/mm ²	approx. 1.9 N/mm ²	≥ 1 N/mm ²
Tensile adhesion strength after water immersion	approx. 1.2 N/mm ²	approx. 1.6 N/mm ²	≥ 1 N/mm ²
Tensile adhesion strength after heating	approx. 2 N/mm ²	approx. 1.7 N/mm ²	≥ 1 N/mm ²
Tensile adhesion strength after freeze-thaw cycles	approx. 1.7 N/mm ²	approx. 1.8 N/mm ²	≥ 1 N/mm ²
Extended open time	30 minutes	30 minutes	30 minutes
Vertical slippage	0.01 mm	0.08 mm	≤ 0.5 mm

Do not use for	In alternative
Laying directly on gypsum or anhydrite substrates	PRIMER DG 74 – AP 71 FLEX
Heated floors with tiles having a size exceeding 900 cm ²	AD 8 + LATEX DE 80 or AZ 59 FLEX
On surfaces already covered with tiles having a size exceeding 900 cm ²	AD 8 + LATEX DE 80 or AZ 59 FLEX
Concrete or lightweight concrete surfaces	AD 8 + LATEX DE 80 or AZ 59 FLEX
Large size ceramic tiles or slabs of natural stone	AD 8 + LATEX DE 80 or AZ 59 FLEX or AT 99 MAXYFLEX
When the building has to be declared suitable for habitation as soon as possible	AQ 60 STONE
Plasterboard walls, with tiles having a size exceeding 900 cm ²	PRIMER DG 74 - AD 8 + LATEX DE 80 or PRIMER DG 74 - AZ 59 FLEX or FASSAFIX
Laying on wooden or metal surfaces	AX 91
Laying on precast or freshly-mixed concrete	AD 8 + LATEX DE 80 or AT 99 MAXYFLEX
Laying on floors or walls affected by strong movements or vibrations	AD 8 + LATEX DE 80 or AT 99 MAXYFLEX

The above information refers to laboratory testing; it is possible that in practical applications on site it may differ according to the conditions in which the material is applied. In any case the user should verify that the product is suitable for the intended application, taking all responsibility for its use. Fassa reserves the right to make technical modifications without notice.