



Aderflex RP

ST9-0221

High-performance cementitious adhesive with good deformability for ceramic tiles



DESCRIPTION

Aderflex RP is a powder adhesive for ceramic tiles. Rapid setting and hydrating meaning it is ready for foot traffic and grouting just a few hours after laying (three hours at 20° C). The product contains no chlorides, ferrous particles or other materials which could be toxic for users. **Aderflex RP** is a single-component product making it easy to apply, just add drinking water. It is CE marked as C2FE adhesive according to EN 12004 (improved cementitious adhesive with fast setting and extended open time).

ADVANTAGES

- Quick setting, it is suitable for pedestrian traffic and to be plastered after 3 hours; it can also be applied on old glazed or wooden floors, on reinforced concrete structures, in the case of outdoor laying.

USES

Aderflex RP can be used as an adhesive to lay all kinds of ceramic floor and wall tiles indoor and for external applications. It can be used to fix to Kimicover or Betonfix resin coatings or to existing floors that have been thoroughly cleaned and degreased. When fixing to surfaces subject to deformation, mix **Aderflex RP** with **Kimitech Elastofix** instead of water. Do not use on metal structures, bituminous coating, anhydrite screeds and to fix green marble.

APPLICATION

	Manual application		Wall joints: 3 h Floor joints: 3 h Ready for traffic 3 h
	Mixing water: 7- 7,25 lt/ 25Kg		
	Max thickness per coat: 1-1,5 cm		

Concrete substrates have to cure at least 28 days and chalk plasters must not have a moisture content exceeding 10%.

Apply to cement-based substrates that have cured for at least 28 days. **Aderflex RP** should be applied to solid, well-anchored compact substrates free of dust, grease, wax, old flaking coats of paint, or any other material which could impair the quality of the bond. Treat substrates with a coat of **Kimitech ACR** in case of: gypsum or scagliola plaster/render coats, flaking substrates, When preparing the product, add the amount of clean water shown in the table then mix carefully with a low-rev mechanical stirring device (200-300 RPM) until the mixture is even and smooth.

Apply the product using a toothed spreader of a proper size being careful to spread a thin, even layer with the smooth side of the spreader first then go back over it with the toothed side.

In external applications and when laying large-format or interlocking tiles, two layers of the product are required, apply to the substrate and to the tile back.

Do not apply the product at temperatures below + 2°C or to surfaces in direct sunlight. The area to be treated should be protected from water washout for the first 24 hours. If the flooring must be put back into use quickly, use **Aderflex RP** adhesive for fast grouting and smoothing. Do not remix by adding water to the product when it has already started to set.

Aderflex RP has a workability of 45 minutes at 20° C; do not add water or mix when it has already started to set, to make it workable again because it would lose all its chemical and physical characteristics.

The open time, with a temperature of 20 ° C and in normal humidity conditions, is about 25 minutes: this can significantly decrease in presence of very absorbent substrates, with high temperatures, dry wind, strong sun.

In these cases, to extend the open time, wet the support, protect it from wind and beating sun; before laying the tile, it is always necessary to check that a "skin" has not been created on the surface, which has to be removed with the notched trowel.

Never throw water into the adhesive immediately before laying the tile.

Expansion joints, made according to the tile manufacturer's directives, must be sealed with **Tecnoseal 130**; grouting can be carried out with **Fugaflex EVO 04** or **Fugaflex EVO 15**, depending on the width of the joints or with three-component epoxy mortar (**Kimitech K40** mixed with **Kimifill K9**) in case of chemical aggressions.

Avoid applying **Aderflex RP** at temperatures below + 2 ° C.

The treated area must be protected from runoff for the first 3 hours.

CONSUMPTION

From 3 to 6 kg/m² depending on the substrate and type of tile to be bonded

PACKAGING

Bag 25 Kg.

STORAGE

Protect from humidity.

Stored in a dry, sheltered place in these conditions and in unopened containers, it remains stable for 12 months.

Characteristics	Value
Appereance	Powder
Colour	grey
Hardening (Vicat) [h]	start: 1 end: 1,5
Mixture durability [min]	> 50 mins
Open time (EN 1346) [min]	25 mins
Adjustability time [min]	< 30 mins
Wall grouting [h]	3 h
Floor grouting [h]	3 h
Set to light foot traffic [h]	3 h
Ready to use [h]	24 h (3 days for tubes and swimming pools)
Complete hardening [days]	3
pH in water dispersion	12 ± 0,5
Toxicity	Non-toxic
Vertical sliding	Absent

Application temperature [°C]	+2 ~ +38 °C
Compressive strenght 28 days EN 1015-11 [MPa]	> 25
Flexural strenght a 28 days EN 1015-11 [MPa]	> 8,5

Datas in compliance to the UNI EN 12004 (CE marking)	Requirements
Open time: tensile adhesion strength after 10 min EN 1348 [MPa]	> 0,5
Open time: tensile adhesion strength after 20 min EN 1348 [MPa]	> 0,5
Open time: tensile adhesion strength after 30 min EN 1348 [MPa]	> 0,5
Anticipated tensile adhesion at 6 h EN 1348 [MPa]	> 0,5
Anticipated tensile adhesion at 24 h EN 1348 [MPa]	> 0,5
Initial tensile adhesion strength after 28 days EN 1348 [MPa]	> 1*
Tensile adhesion strength after water immersion EN 1348 [MPa]	> 1
Tensile adhesion strength after thermal ageing EN 1348 [MPa]	> 1
Tensile adhesion strenght after frost-thaw cycles EN 1348 [MPa]	> 1

WARNING

Product for professional use.

The use of natural raw materials may result in natural color variations from one production lot to another, this does not affect product technical performances.

Do not remix with water any product that has already started to set. Do not remix with water any product that has already started to set. Dust-forming or highly absorbent tiles should be dipped in clean water before laying. Before using, check bags have not been damaged, and do not use the product if there are any lumps.

For further information and advice on safe handling, storage and disposal of chemical products, the user must refer to the most recent Safety Data Sheet, containing physical, ecological, toxicological and other data related to safety. All technical data shown in this Technical Data Sheet are based on laboratory tests. Actual measurement data may vary due to circumstances beyond our control. The information and requirements indicated in this Technical Data Sheet are based on our current knowledge and experience and are to be considered, in any case, purely indicative. They cannot guarantee the final result of the applied product and they have to be confirmed by exhaustive practical applications; therefore the user must test the suitability of the product for the intended application and its purpose. Users must always refer to the latest version of the local technical data sheet related to the product.