

# KAROFIX



**KAROFIX** is a cementitious tile adhesive intended to be used with water only. It is suitable for application of ceramic tiles or porcelain tiles, on interior and exterior walls and floors.

## KEY FEATURES

- **KAROFIX** is a grey powder composed of cement and fine aggregates and specific additives.
- It has very good initial adhesion and thixotropic properties, allowing it to be applied on vertical substrates without dipping or sagging.
- Suitable for application in swimming pools or basins.
- Tiled floor can be made available to light traffic after 24 hours.

## GUIDELINES FOR KAROFIX APPLICATIONS

Size of tile (cm <sup>2</sup> )	50 < S ≤ 500	500 < S ≤ 1600	1600 < S ≤ 1800	1800 < S ≤ 3600	3600 < S ≤ 10000
Interior floor	✓	✓	✓✓	✓✓	×
Exterior floor	✓	✓	✓✓	×	×
Interior wall	✓	✓	✓✓	×	×
Exterior wall	✓	✓	✓✓	×	×
Interior tiling over existing tiles	✓	✓	✓✓	×	×
Exterior tiling over existing tiles	✓	✓	✓✓	×	×
Wet area	✓	✓	✓✓	×	×
Pool	✓	✓	✓✓	×	×

× Not Recommended

✓ Recommended  
(Single Bedding)

✓✓ Recommended  
(Single Bedding + back Buttering)

## RECOMMENDATIONS

**Do not** use **KAROFIX** in the following cases:

- On wooden substrates.
- On metallic, rubber, PVC surfaces.
- On walls or floors subject to strong shrinkage, movement or vibration.
- Where a fast setting tile adhesive is required.

# APPLICATION METHODOLOGY

## SURFACE PREPARATION

- New floor and wall surfaces must be allowed to cure for a minimum periods, as tabulated below, to ensure that tile installation is not subjected to dry shrinkage movements:
- All supporting substrates must be free of oil strains, dust, laitance and other bond inhibiting compounds.

Type of Substrate	Age of Curing
New concrete	6 weeks
New Screed	4 weeks
New Render	2 weeks

- Ensure that the substrate is flat, stable, well adhered and has a normal absorption.
- Correct all imperfections on the substrate at least 48 hours before application of the tile adhesive.
- Humidify the surface with a masonry brush before applying **KAROFIX**.

## PREPARATION AND APPLICATION OF ADHESIVE

- For Floors: Gradually add the contents of a bag of 25Kg of **KAROFIX** to 8.25 L of clean water and mix until obtaining a smooth and homogeneous paste.
- For walls: Gradually add the contents of a bag of 25Kg of **KAROFIX** to 7.0 L of clean water and mix until obtaining a smooth and homogeneous paste to minimize the risk of slipping.
- It is important to pour the product in water and not vice versa.
- Let stand for about 2-3 mins. The adhesive is now ready to use.
- Apply **KAROFIX** over the surface using the straight edge of the notched trowel and then comb the applied adhesive using the notched side of the trowel.  
*\* Refer to Table 1 for the application protocol according to the dimension of the tile to be used.*
- Within the opening time, place the tile on the substrate and press firmly to ensure the contact between the two surfaces and evacuate air from the surface.

## APPLICATION TIPS

To maximise adhesion, spread a thin layer of **KAROFIX** on the substrate using the flat side of the trowel to fill uneven surfaces before applying the adhesive.

## TECHNICAL DATA

In compliance with EN 12004

### PRODUCT IDENTITY

Type	Powder
Colour	Grey
Storage	6 months in a cool dry place
Packaging	25 kg

### COMPOSITION AND PROPERTIES

Mixing ratio	8.25 L per bag for floor & 7.0 L per bag for wall
Density of mix	1,800 kg/m <sup>3</sup>
Pot life	Maximum 2 hours
Open time	20 mins
Adjustability time	< 45 mins
Set to light foot traffic	After 24 hours
Ready for use (Normal surface)	14 days

### TECHNICAL PERFORMANCE

TENSILE ADHESION STRENGTH	(N/mm <sup>2</sup> )
Initial Tensile Adhesion	≥ 0.5
Tensile Strength after heat ageing	≥ 0.5
Tensile Strength after water immersion	≥ 0.5
Tensile Strength after Freeze/Thaw cycles	≥ 0.5
OPEN TIME	(N/mm <sup>2</sup> )
Open Time after 30 minutes	≥ 0.5

### TESTS / STANDARDS

- The initial tests of **KAROFIX** has been performed by LGAI Technological Centre S.A (APPLUS), a notified laboratory, as per the norm EN 12004.
- Drymix Ltd is certified ISO 9001, as such there is a factory production control system in place to ensure good quality of raw materials, semi-finished materials and finish goods.

### APPROXIMATE COVERAGE

Coverage (m<sup>2</sup>) per bag

Test Description	Coverage (m <sup>2</sup> )
Single buttering using notched trowel (10 x 10 x 10) - Trowel positioned at 60°	6.9
Double buttering using notched trowel (10 x 10 x 10) on floor +application of adhesion at the back of tile (2.5 mm). Trowel positioned at 60°	4.3
Double buttering using notched trowel (10 x 10 x 10) on floor +application of adhesive using notched trowel (10 x 10 x 10). Trowel positioned at 60°	3.9

### GROUTING

- Wall joints can be grouted after 5 - 8 hours, depending on absorbency and floor joints can be grouted after 24 hours.
- Always allow grout joints of at least 2 - 5mm between tiles.

## HEALTH & SAFETY NOTES

As with all cement based products:

- Wearing of gloves, goggles are highly recommended during application.
- Avoid contact with the eyes & skin.
- In case of contact with skin or the eyes, wash abundantly with clean water.
- In case irritation persists, consult a doctor immediately.

For further information and advice on the safe handling, storage and disposal of this products, user shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## NOTES

The information, and, in particular, the recommendations relating to the application and end-use of DRYMIX products, are given in good faith based on DRYMIX's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with DRYMIX's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.