



**INSTALLATION, CLEANING AND MAINTENANCE  
INSTRUCTION MANUAL FOR EZARRI TILES**

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1- Introduction	4.
2- Installation Manual	
A. Preparation of the surface	5.
B. Installation Plan	5.
C. Choosing the adhesive	6.
D. Installation	7.
E. Choosing the grout	8.
F. Applying the grout	9.
G. Cleaning the grout and final cleaning	9.
3- Grout protection, maintenance and cleaning	10.
4- Cutting tools	10.
5- Cleaning ezarri anti slip tiles	10.
6- Adhesives, grout and cutting tools supplied by ezarri	11.
7- Service and Installation support	12.

## Introduction

When we consider the decoration of any project, whether it be inside, outside or a pool area, we would like to use a versatile and elegant material with a wide range of colours and one that meets the needs of the environment.

ezarri's tiles tick all these boxes.

We are specialists in mosaic tiles with over 30 years experience, we offer a wide range of colours all panelled with our exclusive **JointPoint**® system ([www.jointpoint.es](http://www.jointpoint.es))

We export to over sixty countries with our worldwide agent and distribution network and our design department is constantly developing a variety of products.

In Ezarri the investment in quality has been ongoing throughout our history making us the first mosaic tile company to be awarded the ISO 9001 quality certificate.

However, we know that for our clients to be fully satisfied we must not only go for quality in our tiles but also in the quality of their installation.

We are constantly investigating the best adhesives, the most convenient use of grouting, and the tools that will make it easier to install Ezarri tiles.

Our installation manual will help you avoid any errors or problems with adhesives, cutting or falling tiles, and enable you to use the best techniques to obtain the highest quality finish of your project.

We can also help you with advice on applying adequate grouting and emphasise the importance of good maintenance in order to ensure long-lasting quality.

To conclude we will explain step by step what we consider the optimum installation phases, always with the aim of obtaining an excellent result.

We hope that this guide will be of interest, and provide a direct and clear guide. We will be happy to clear up any concerns you may have that are not covered in this manual.

## A. Preparation of the surface

A good surface preparation is basic as it will directly affect the final result of the mosaic installation.

Surfaces should have the following characteristics:

- Cleanliness. The surface must be clean of dust, mould, paint, etc.
- Stability. The surface must be steady and not in danger of falling.
- Degree of Humidity. The surface must be dry (less than 3%) This will be tested using a contact hydrometer.
- Flatness. The surface must be as level as possible. Checking that the maximum variation within 2m is less than 3mm.

It is important to point out that the impermeability of the pool does not correspond to the mosaic tiling but to the lining of the pool. For concrete pools, therefore, it is advisable that the application of an impermeable product is always followed by filling the pool and testing for any leakage.

## B. Planning the Installation

Before tiling commences, it is advisable to plan exactly where to begin, where to continue to, and where to finish.

Ezarri recommend the following:

- Pay maximum attention to the straightness of the joint between the panels to get the best line.
- If tiling is done indoors, the best way to start is from the top to the bottom so any necessary tile cutting can be done at floor level, thus reducing visual impact.
- If the tiling is for a pool start at the top of the wall, work down, continuing with a ladder – and finish at the bottom.
- In swimming pools we suggest using different coloured tiles in the areas where there is a change of depth, such as steps.
- Anti-slip tiles should be used in areas where there is a danger of falling over, such as steps, showers etc.

## C. Choosing the right adhesive

In order to obtain the best results it is important to choose the right adhesive to bond the tiles to the surface.

Bear in mind the following:

- The surface on which the ezarri tiles are to be installed.
  - 1- If the surface is exterior, interior, or is going to be submerged in water etc.
  - 2- On what kind of surface, eg cement, polyester, glass, are the tiles going to be laid.
  
- Similarly, we should bear in mind the technical properties of ezarri's glass tiles. The practically non-existent absorption of water. Within the European standard UNE EN ISO 10545-3, the glass tile is covered with a low absorption of water coating (<3%). This means that on one hand, it is a suitable for humid atmospheres due to its low absorption of water, and on the other that improved holding material with superior holding characteristics will be needed.

It's interesting to note that adhesives are classified under the European standard UNE UN 12004. According to this standard adhesives are divided into:

- C- Cement based adhesives
  - C1. Cement based adhesives
  - C2. Improved cement based adhesives
- D- Dispersion Adhesives
  - D1. Dispersion Adhesives
  - D2. Improved Dispersion Adhesives
- R- Reaction resin adhesives
  - R1. Reaction resin adhesives
  - R2. Improved reaction resin adhesives

ezarri recommend for interior, exterior and pools an adhesive that has at least has C2TE classification improved cement based adhesive with no vertical slip and a prolonged working time (see page 11). This recommendation applies where the surface is concrete.

For the installation of our tiles on other surfaces, polyester, glass etc.... we advise you to contact our support team who can help you find the best solution.

## D. Installation

For the adhesive to behave correctly the recommended instructions of the adhesive must be followed closely.

Working the adhesive a homogenous creamy paste without lumps or bubbles will be obtained.

The atmospheric conditions should be:

- Air temperature should be between 5 and 30 degrees
- Wind speed should be less than 50 km/h
- No rain

A 6mm layer of adhesive must be applied to the surface with a notched float. The mosaic should be placed within the specified time of the adhesive before it forms a dry film on the surface which would impede the adherence. For this reason we advise glueing only 2 m<sup>2</sup> at a time.

Stick the **JointPoint**® ezarri panels ([www.jointpoint.es](http://www.jointpoint.es)) and press with a rubber float so that all the tiles are perfectly stuck. Do not use a metal float so as to avoid damaging or scratching the tiles.

Correct any alignment defects with a trowel and remove any excess adhesive with a sponge.

Repeat these steps until the surface is covered.

According to the product instructions, allow the adhesive to set for about 24 hours.

## E. Choosing the grout

It is important to understand the function of grout in order to make the correct choice. There are two kinds of function:

- Aesthetic

To enhance the beauty and the aesthetic qualities of the mosaic and to obtain the best effect from the existing colours and effects.

- Mechanical

Absorb any deformations of the support wall, preventing transmission to the coating.

Absorb dilatation of the tile due to temperature changes.

Permit the diffusion of water vapour out and prevent water passing in (Impermiability).

Grout is classified according to European standard EN UNE 13888, keeping to the following classification:

CG 1: Cement mortars for joints.

CG 2: Improved cement mortars for joints.

RG: Reaction resin mortars for joints. Hardening is a result of a chemical process. They normally have two components.

ezarri recommend the use of epoxy grout included in the RG group, mortar grout of reactive resins. (see page 11)

The advantages of epoxy grout with regard to cement grout are the following:

- High resistance to chemical products
- Resistance to bacteria
- High adhesion
- Good resistance to humidity

The only two disadvantages are its high price and its application. Although from the point of view of ezarri we feel the advantages outweigh the disadvantages.



## F. Applying the grout

The preparation and use of the grout must be carried out carefully following the maker's recommendations in order to obtain a homogenous paste without lumps or bubbles. The atmospheric conditions for applying the grout must be:

- Temperature between 5 and 30 degrees
- No rain

Once the paste is ready the application can begin. Using a rubber float apply the grout paste, carefully filling all the joints.

We recommend that after each 2 m<sup>2</sup> of grouting any excess grout should be cleaned off.

## G. Cleaning the grout and final cleaning of the work

### Cleaning after the application of the epoxy grout:

- After application, use a rubber float to remove any surplus grout.
- With a circular movement make an initial clean with a white, wet abrasive sponge in order to seal the joints perfectly.
- A second cleaning with a sponge float should be done.. Repeat this operation a few times until the mosaic is completely clean. Finally leave the grout to dry for approximately 24 hours, according to the instructions.
- The epoxy grout creates a film of grease on the mosaic which needs cleaning. We recommend a final cleaning with a specific detergent, such as LITONET GEL (see page 11) or with a detergent like FILA CR10.

### Cleaning after using a cement grout:

- After applying the grout, clean the mosaic with water using a sponge float.
- As a final cleaning we recommend the use of a slightly acidic detergent that does not give off toxic gases nor attack the grout, such as DETERDEK (Fila).
- Finish off the cleaning process with a dry cloth.

### 3. Protection, Maintenance and Cleaning the grout

#### Protection of the cement grout (Epoxy grout does not need protection)

We recommend the use of an impermeabilising product, like Fugaproof.

For areas of high quantities of water and humidity, (pools and showers) we recommend the application of a waterproofing product like Hydrorep.

#### Cleaning the grout in the pool

When winter maintenance is due, empty the pool of water and do the following:

- Apply a descaling product to the walls and floor. Leave it on for between 15 and 20 minutes and then rinse with plenty of water. Do this when there is minimum sunlight and wear gloves and a mask.
- Once the pool is clean apply an algicide, which must be left on for 6 hours before refilling the pool.

### 4. Cutting tools

Ezarri mosaic can be cut with:

- Special tile nippers (see page 11)
- Radial tile saw (see page 11)

In order to avoid any risk of accidents, ezarri recommend the use of a radial saw (whose edge is not sharp) instead of nippers.

### 5. Cleaning the ezarri antislip mosaic

For the final cleaning of the antislip tile, where epoxy grout was used, a cleaner like Litonet Gel gives good results (see page 11), or Fila CR10.

Where a cement grout was used, an acid that does not give off toxic gases nor harms the grout, such as Fila PhZero is recommended.

The use of a steel brush to remove any encrusted residues is essential when cleaning this kind of rough surface.

## 6. Adhesives, grout and cutting tools supplied by ezarri

MATERIALS DISTRIBUTED BY EZARRI				
Code	Description	Packaging	Performance	Usage
<b>Adhesives</b>				
A001	Adhesivo Keraflex Blanco 25 kg	25 kg	2,5 kg/m <sup>2</sup>	Improved cementitious adhesive. C2TE. White colour. For concrete surface
A007	Adhesivo Keraflex Gris 25 kg	25 kg	2,5 kg/m <sup>2</sup>	Improved cementitious adhesive. C2TE. Grey colour. For concrete surface
A005	Adhesivo Superflex 8 kg	8 kg	1,6 kg/m <sup>2</sup>	Bi-component adhesive. R. White colour. For polyester surface
<b>Epoxi Grouts</b>				
J004	Junta Epoxi Antracita C240 5kg	5 kg	1,4 kg/m <sup>2</sup>	Grey anthracite epoxy grout. RG
J005	Junta Epoxi Artic Blue C390 5kg	5 kg	1,4 kg/m <sup>2</sup>	Blue Epoxy grout. RG
J006	Junta Epoxi Bianco C470 5kg	5 kg	1,4 kg/m <sup>2</sup>	White epoxy grout. RG
J007	Junta Epoxi Turchese C400 5kg	5 kg	1,4 kg/m <sup>2</sup>	Turquoise blue epoxy grout. RG
J008	Junta Epoxi Zaffiro C260 5kg	5 kg	1,4 kg/m <sup>2</sup>	Dark blue epoxy grout. RG
J009	Gold 0,150 kg	0,150 kg	0,150 kg / 5kg Epoxi grout	Gold effect to be used with 5kg epoxy grout
J010	Spotlight 0,150 kg	0,150 kg	0,150 kg / 5kg Epoxi grout	Spotlight effect to be used with 5kg Epoxy grout
<b>Cementitious Grouts</b>				
J001	Junta Kerakolor FF Blanco 100 - 25kg	25 kg	1,25 kg/m <sup>2</sup>	White cementitious grout. CG2
J003	Junta Kerakolor FF Gris Antracita 114	25 kg	1,25 kg/m <sup>2</sup>	Grey Anthracite cementitious grout. CG2
A006	Isolastic Latex 5 kg	5 kg	consult	Latex for grouts. Polyester pools.
<b>End of Work Cleaning</b>				
J011	Litonet Gel 0,75 kg	0,75 kg	consult	Final detergent for epoxy grouts at end of project.
<b>Cutting Tools</b>				
MTEN1	Special tile nippers	1 unit		
MTEN2	Radial tile saw	1 unit		

## 7. Service and help in the installation

Following the excellent work that has been done, ezarri wants not only to provide a quality service of manufacture and supply of mosaic but also a dependable service regarding the installation process.

For this reason, our installation department is available to help with any problems regarding mosaics, adhesives and grouting.

If we can be of any further help, please feel free to contact us as and when you want.

# Installation Manual



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