

VERSION

4F



**TECHNICAL  
INSTRUCTION MANUAL**

**EKKO PLUS**

PERMEABLE FLOOR

# EKKO PLUS

## PERMEABLE FLOOR

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## CONGRATULATIONS!

You have acquired a high quality differentiated product. To keep its characteristics it is necessary to have special precautions in its installation. We recommend the installation of the material being accompanied by qualified professionals: architects, engineers and building technicians, and laid by professionals specialized in laying marble, granite and concrete slabs. To hire a professional in laying the product that guarantees the success of his service is as important as purchasing a quality product.

Please read these instructions carefully before laying the material, so that you can fully enjoy the durability, beauty and innovation of our products. If you have any questions or want more information, please visit our website [www.castelatto.com](http://www.castelatto.com), or send an email to [sac@castelatto.com.br](mailto:sac@castelatto.com.br) or contact us by phone **55 11 4416-6900**.

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## 2. PRODUCT

The floors and coverings Castelatto are crafted, so they may vary slightly in dimensions and colors, besides small marks in its edges. They are pieces of concrete of high performance and present as advantages of this material, high mechanic resistance and high durability, once installed correctly.

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## 3. INFORMATION

Castelatto has a **YouTube** channel with video lessons of laying our products. We also have a **Frequently Asked Questions** page on our website, go to [www.castelatto.com.br](http://www.castelatto.com.br) and check all the information.

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## 4. RECEPTION

- Choose someone you trust to be responsible for receiving and checking the material.
- Check the material as requested. If you notice any irregularities, follow the procedures described in item - DELIVERY AND CUSTOMER SERVICE.

## 5. STORAGE

- The product is sensitive to stains before applying the protection therefore it requires special care in transportation and handling.
- Those responsible for the unloading and storing of the product must have their hands clean or wear gloves to keep the pieces unstained.
- The material must be stored in a clean area, preferably covered, and the floor should be lined with plastic (do not use cardboard).
- Store the pieces horizontally in order to keep them undamaged.
- Cover the pieces with plastic.



## CAUTION

- We recommend not storing the pieces for a long time because they tend to create stains. This is a natural process of the concrete, and they are not considered a product defect.
  - It is very important to have someone qualified to supervise the moment of storing to avoid irreparable damage to the product.
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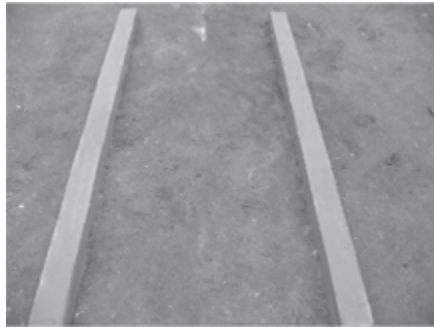
## 6. EKKO PLUS LINE

The pieces of the line EKKO PLUS are fully permeable and make it possible the application in technical projects, such as parks or public streets, ideal for places where is necessary soil permeability. Suitable for paths, access, public areas and sidewalks, garages, eaves troughs on the ground and other landscaping situations, allows traffic of light vehicles.

## 7. LAYING

See the instructions for laying bellow:

- ▶ Build the lateral containment.



- ▶ Compact the ground.



- ▶ The application of geotextile is optional.



- ▶ Apply the base coat: add a layer of fine aggregate with maximum size of 9.5 mm.
- ▶ Add gravel to aid leveling parts.



- ▶ Lay the pieces with dry joints or joints up to 3 mm.



- ▶ In case of grouting, the ideal is to use finer aggregates than those used in the settlement layer.
- ▶ The average yield of the grout is 8 m<sup>2</sup> for each package of 10kg.

In the draining system the water should be captured and brought to the base layer. It is recommended to make the project following a soil survey done by a specialized professional.

We advise to perform the stage of laying according to the analysis of the Manual of Laying Permeable Pavements, developed by the Brazilian Portland Cement Association (ABCP). The ABCP is recognized, nationally and internationally, as the largest reference entity in research and support to the Brazilian civil construction market.

Download the Manual Laying Permeable Pavements using the link:

[http://castelatto.com.br/cartilha/Cartilha\\_Pav\\_Intertravado\\_Permeavel.pdf](http://castelatto.com.br/cartilha/Cartilha_Pav_Intertravado_Permeavel.pdf)

## 8. CLEANING

### CLEANING IN THE BUILDING SITE

- It is very important, after laying the floor, to keep it covered with plastic until the construction work is completed to avoid any dirt (do not use cardboard).
- Do not use acids, not even those cleaning products of acid base recommended for cleaning stones and others.

### ALKALINE DETERGENT

- ▶ Indicated for post-construction cleaning and maintenance.
- Rinse the floor with clean water.
- Apply the product and leave it for 5 minutes.
- Rub with brush or broom.
- Wash with abundant water (never leave the detergent dry on the piece).
- It is ideal the use of a high-pressure washer (spurt fan).



### DILUTION

- For general cleaning, dilute the detergent in water, with the proportion of 1:10.
- For construction cleaning, dilute the detergent in water with the proportion of 1:5.
- For post-construction cleaning, use the product **UNDILUTED**.

| DILUTION | TYPE OF CLEANING           | YIELD              |
|----------|----------------------------|--------------------|
| 1:0      | POST-CONSTRUCTION CLEANING | 5 M <sup>2</sup>   |
| 1:5      | HEAVY CLEANING             | 30 M <sup>2</sup>  |
| 1:10     | AVERAGE CLEANING           | 60 M <sup>2</sup>  |
| 1:20     | LIGHT CLEANING             | 120 M <sup>2</sup> |

## 9. PROTECTION

The waterproofing for Ekko Plus line has a merely aesthetic function, in order to emphasize the tonality of the material.

### EKKO PLUS LINE (GEOMÉTRICO - IPANEMA)

This line comes waterproofed from the factory.

### EKKO PLUS LINE (FRESADO)

#### ANATHANE CAS VARNISH

- ▶ Composed by two products: Aliphatic polyurethane varnish (component A) and catalyst - Aliphatic Isocyanate (component B).
- ▶ Enhances the tonality of the covering and gives shine to the surface.
- ▶ Create protective film resistant to UV rays.
- ▶ Increases resistance to scratches and fats.



- Must be applied on completely dry covering (minimum of 72 hours after laying).
- Apply with short hair roll.
- Apply one coat.
- Final Drying: 48 hours.
- Yield per liter: **4 m<sup>2</sup>**.

### EKKO PLUS LINE (NATURAL)

- In this option of texture is not necessary to use protective material.



## 10. DELIVERY AND CUSTOMER SERVICE

### ORIENTATION FOR THE CONSUMER WHEN RECEIVING THE PRODUCT

Check the material and verify whether it is according to the request. If you notice any irregularities, follow the procedure below:

- Record the occurrence on knowledge of the delivery.
  - Report immediately to the resale.
  - You should never install the product if you find any visible defects. According to the Law of the Consumer when a product is installed it is considered accepted.
  - You should always keep your receipt in case of future technical assistance.
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We clarify that the phenomenon of efflorescence is not a defect, as it does not change the structural characteristics of the product.









CSC CASTELATTO

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