

### MONNELI ARREDO COLLA

*Cementitious Adhesive for Natural & Artificial Stone*

#### Product Description

A powder grey adhesive for natural and artificial stone. It has a base of special binders combined with selected aggregates of a suitable granulometric size and special additives. ARREDO COLLA has a rapid setting and hydration time which prevent vertical slipping, it is a single component and therefore easy to apply by simply adding water.

#### Uses

ARREDO COLLA is used as an adhesive for fixing internally and externally natural or artificial stone, on both walls and floors. It can be used also for fixing of the following:

- All types of ceramic tiles
- Vitreous mosaic
- Klinker tiles
- Porcelanized gres
- Single-fired tiles and low porosity materials
- Tiles on top of old ceramic floors, marble or natural stones

#### Advantages

- Fast-Setting
- Vertical slip resistant
- Easily workable
- Water resistant
- Eco-friendly
- Formulated to suit Middle East condition

#### Instructions for Use

##### Surface Preparation

All surfaces should be sound, clean & uncontaminated. This preparation should leave an exposed concrete surface free from dust, loose particles, deleterious matter, oil, grease, chemical films & other contaminant.

All loose particles of mortar, paint, etc. must be physically removed.

Concrete or block work: should be allowed to cure sufficiently so that all shrinkage movements take place before fixing tiles.

Gypsum supports: must be treated with PRIMER A16. Should not have a percentage of humidity more than 10%.

The surface of substrates must be moistened slightly with clean water to reduce the absorption of water from the mortar. Do not moistened the tiles.

##### Mixing

Add ARREDO COLLA bag of 25 Kg. into a container of 5 to 5.25 Lt. of clean water, mix until a uniform, lump free consistency mix is achieved. For mixing process, a slow speed drill (200-300 rpm) fitted with a suitable paddle is recommended.

Keep the obtained mix from 3 to 5 minutes and then remix before application.

##### Application

Spread ARREDO COLLA on the substrate to a uniform thickness using a toothed spatula, the first pass with its straight edge and the second pass immediately after, to the desired thickness using the toothed part.

Place the tiles onto the adhesive bed. Apply sufficient pressure on the tile during fixing it with slight twisting movement in order to ensure good contact with the adhesive.

In case of large size tiles, it is necessary to spread the adhesive also to the backside of the tile and then place the tiles into the adhesive bed.

Apply enough material that can be tiled during the adhesive's open wet time. Spreading large areas may result in drying the adhesive before tiles can be fixed causing poor adhesion.

### **Finishing**

Remove excess adhesive with damp cloth before the material has set. Joint grouting between tiles may be commenced after hours.

### **Cleaning**

Tools and equipment should be cleaned with water immediately after use. Hardened materials should be mechanically removed.

### **Recommendations**

- Stiffened mortar must not be diluted with water or with fresh mortar
- Dusty or highly absorbent stones must be soaked for few seconds in clean water and then allowed to dry before the laying
- Do not use ARREDO COLLA on metal, wood or non-absorbing surfaces
- Do not apply ARREDO COLLA in rainy weather, high winds and sand storms
- Do not apply under direct sun
- Keep equipment cool and use cold water
- Check that the bag is unopened before use and do not use the product if lumps are present

### **Applicable Standard**

- European Directive UEATC
- EN 12004 - C2FT
- DIN 18156 – 2nd part
- ANSI A 118.4

## **Technical Data**

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Properties	Results
Appearance	Powder
Color	Grey or white
Density	1.7 kg/L
Flexural strength	6.5 N / mm <sup>2</sup>
Compressive strength	19 N / mm <sup>2</sup>
Adhesion strength	1.8 N / mm <sup>2</sup>
Vertical sliding	None
Water resistance	Excellent
Aging resistance	Excellent
Flexibility	Very good
Open time at 25°C	25 minutes
Grouting	After 24 hours
Full strength	After 15 days
Inflammability	No
Service temperature	From -5°C to +80°C

All values are subject to 5-10 % tolerance

## **Consumption**

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From 4 - 8 Kg / m<sup>2</sup> according to the type of support and stone

## **Packaging**

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ARREDO COLLA is supplied in 25kg bags.

## **Storage**

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Store in dry covered place in the original closed bags and shelf life is 12 months if stored as recommended.

## Health & Safety

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ARREDO COLLA is a cement-based product. During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary. In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly. If ingested, obtain medical attention immediately. Do not induce vomiting.

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