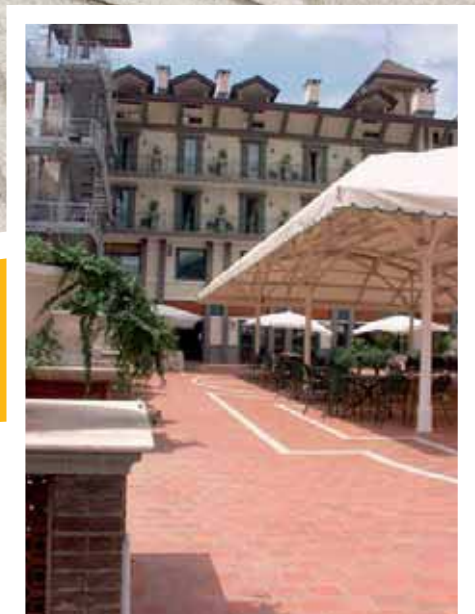


# air-one

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## AIR-ONE

High-efficiency ultra-light one-pack powder adhesive with a high polymeric content for fixing ceramic tiles.

## bonding agents and adhesives

**TECHNOKOLLA**





43±1% grey  
44±1% white



5-35°C



30 min



6-10 mm



6 h



6 mm



# air-one



EN 12004



EN 12004



EN 12002



## MAIN FEATURES

- Very high efficiency
- One-pack adhesive
- Exceptional workability
- Frost proof
- No creep
- Longer open time

## APPEARANCE

White or grey powder

## STORAGE

12 months in a dry place

## FIELDS OF USE

- Fixing ceramic tiles of all types, even in large formats, on both indoor and outdoor walls and floors
- Over-tiling on old ceramic tiles without the use of primer
- Fixing thin porcelain stoneware slabs
- Suitable for use when a high performance is required, such as: tile laying in industrial environments, swimming pools and on facades
- Laying cladding materials on electrically or water-heated screeds

## SUBSTRATES

Cement-based plaster, cement-lime mortar, gypsum-based plaster<sup>1</sup>, anhydrite screeds<sup>1</sup>, cement-based screeds, concrete, aerated concrete, old ceramic floors, old linoleum floors<sup>2</sup>, PVC<sup>2</sup> or vinyl<sup>2</sup>, plasterboard, RASOLASTIK, RASOGUM lines.

<sup>1</sup> after application of PRIMER-T

<sup>2</sup> after application of PRIMER-101

## NATURE OF THE PRODUCT

AIR-ONE mainly consists of high-strength cements, selected silicon/quartz mineral charges and specific additives.

Ask our technical department for the safety brief for further information.

## OPERATIONS PRIOR TO FIXING

Small localized hollows or gravel pockets in the case of concrete can be levelled (no more than 5 mm thick) with AIR-ONE 24 h prior to fixing. If thicker layers are required, use RASO, GAP or GAP-R before fixing the tiles.

## bonding agents and adhesives



## RECOMMENDED ACCESSORIES



**TKW 407**  
Blender 1200



**TKW 411**  
**TKW 412**



**TKW 462**  
White rubber mallet



**TKW 111**  
Trowel 8x8 mm



**TKW 121**  
Trowel 10x10 mm

### HOW TO PREPARE THE MIXTURE

Grey AIR-ONE must be mixed with about 8.6 l of clean water ( $43 \pm 1\%$ ). White AIR-ONE should be mixed with about 8.8 l of clean water ( $44 \pm 1\%$ ). Blend until a homogeneous, lump-free mixture is obtained. It is advisable to use a blender at low speed (approx. 500 rpm) as a high speed will reduce the mechanical characteristics of the product. Wait 5-10 minutes, then stir the product briefly again and start fixing the tiles. The product obtained is a creamy paste that can be easily applied with a trowel and that possesses an optimum thixotropy.

### WARNINGS AND RECOMMENDATIONS

It is always advisable to apply a double coat when laying tile formats measuring 900 cm<sup>2</sup> and over.

#### Do not apply to:

- metal
- old tiles outdoors

#### Do not apply to:

- at temperatures lower than 5°C or higher than 35°C
- in coats more than 6 mm thick.

### AMOUNT REQUIRED

|         |                     |                       |                     |
|---------|---------------------|-----------------------|---------------------|
| Trowel  | 6x6 mm              | 8x8 mm                | 10x10 mm            |
| Air-one | 2 kg/m <sup>2</sup> | 2.5 kg/m <sup>2</sup> | 3 kg/m <sup>2</sup> |

The amounts refer to sole use of the trowel and to flat substrates.

# air-one

| TECHNICAL SPECIFICATIONS              | VALUE   | REQUIREMENT            | STANDARD |
|---------------------------------------|---|------------------------|----------|
| Curing time                           | 10 min  |                        |          |
| Pot life                              | *6 h  |                        |          |
| Open time                             | *30 min   | °30 min                | EN 1346  |
| Adjustability time                    | *Approx. 50 min                                   |                        |          |
| Treadable                             | *After 24-36 h                                    |                        |          |
| Floor tiles can be grouted            | *After 24-36 h                                    |                        |          |
| Wall tiles can be grouted             | *After 4-6 h                                      |                        |          |
| Surface can be used                   | *After 14 days (21 days tanks and swimming pools) |                        |          |
| Creep on a vertical wall              | 0 mm  | °≤ 0,5 mm              | EN 1308  |
| Initial tensile bond                  | 1.9 N/mm <sup>2</sup>                             | °≥ 1 N/mm <sup>2</sup> | EN 1348  |
| Tensile bond after the action of heat | 1.8 N/mm <sup>2</sup>                             | °≥ 1 N/mm <sup>2</sup> | EN 1348  |
| Tensile bond after immersion in water | 1.3 N/mm <sup>2</sup>                             | °≥ 1 N/mm <sup>2</sup> | EN 1348  |
| Bond after freezing/thawing cycles    | 1.5 N/mm <sup>2</sup>                             | °≥ 1 N/mm <sup>2</sup> | EN 1348  |
| Transversal warping                   | 3 mm  | ≥ 2,5 mm               | EN 12002 |
| Compressive strength                  | 13 N/mm <sup>2</sup>                              |                        | EN 196   |

° according to standard EN 12004

\* these times refer to a temperature of 23°C – 50% R.H.

They become shorter with higher temperatures and longer at lower temperatures.

## SPECIFICATION

Ceramic floor and wall tiles must be fixed with a class “C2TE cement-based powder adhesive according to standard EN 12004 and S1 according to EN 12002”, such as the AIR-ONE type by TECHNOKOLLA, which can be applied in layers up to 6 mm thick on cement-based substrates.

**Technokolla** reminds you to examine the “**notes**” document that completes the information in this data sheet. The document can be downloaded in the pdf format.

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