



**Cementitious tile adhesive for indoor and outdoor vertical and horizontal application, classified as C2TE S1.**

**Description**

TAG 116 is a cementitious, polymer modified thin-set tile adhesive. It is supplied as a dry powder ready to use bags with only addition of clean water. TAG 116 is easy to use and extremely economical. It is used for bonding tiles, ceramics, granite, and marble on cementitious substrates such as concrete, plaster, and screeds.

**Uses**

- Wall and floor application.
- Suitable for wet and dry conditions.
- Can be used on deformable substrates.
- Can be used for facades
- Recommended to be used for natural stones, porcelains.

**Characteristics / Advantages**

- Excellent adhesion on multiple substrates with different types of tiles.
- Excellent non-sagging property which makes it easy for vertical application.
- Extended open time.
- Superior flexibility.
- Factory controlled pre-blended dry mix which requires only addition of water.
- Can be used for tile on tile application.
- Stable, convenient to use.
- Low VOC.
- No hacking required prior to application.
- Low shrinkage with high durability.

**Standard Compliance**

- BS EN 12004:2017 as C2TE S1.
- ANSI A118.1
- GOST R 56387-2018



**Typical Properties**

The following values obtained when tested in accordance with BS EN12004:2017

<b>Appearance</b>	: Powder
<b>Color</b>	: GREY
<b>Open time</b>	: ≤ 30 minutes
<b>Mixed density</b>	: 1.65 ± 0.10
<b>Application temperature</b>	: +5 to +35 °C
<b>Service temperature</b>	: -50 to +70 °C
<b>Adjustability time</b>	: ≤ 30 minutes
<b>Ready to walk on</b>	: ≥ 24 hours
<b>Ready for grouting on wall</b>	: ≥ 8 hours
<b>Ready for grouting on floor</b>	: ≥ 24 hours
<b>Ready for use</b>	: ≥ 7 days
<b>Reaction to fire (EN 13501-1)</b>	: Class A1
<b>Initial tensile adhesion strength under normal condition</b>	: ≥ 1.25 MPa
<b>Tensile adhesion strength after heat ageing</b>	: ≥ 1.25 MPa
<b>Tensile adhesion strength after water immersion</b>	: ≥ 1.25 MPa
<b>Vertical slip</b>	: ≤ 0.5 mm

**Application Instructions**

**Surface preparation**

The substrate should be sound and clean from dust, oils, dirt, curing compounds, etc. It should be also sufficiently cured to avoid any shrinkage cracks. The substrate should be dampened and excess water to be removed prior to application.



**MICSHIELD™**



**TAG 116**

### **Mixing**

Pour into a suitable container 5.5 – 6.25 liters of clean water. Add 25 kg powder to the water and mix using a low speed mixing drill fitted with the suitable mixing paddle. Continue mixing for 2-3 minutes until achieving lumps-free mix. Allow the mixed material to stand for 1-2 mins then re-stir slightly with no extra water to be added to the mix.

### **Application**

Spread the tile adhesive using the flat side of the trowel and comb it using the notched trowel to ensure having a controlled thickness. Place the tiles firmly onto the substrate with pressure and fix it to the desired position.

The applied material should be covered with tiles within the open time of the product to avoid loss of adhesion. Do not add water in case of loss of workability.

The appropriate thickness of the applied adhesive should depend on the type of tile that will be used. The general recommended thickness is 2-6 mm.

### **Cleaning**

Tools should be cleaned immediately with clean water. Hardened material should be removed mechanically.

### **Consumption**

Approximately 9.5 m<sup>2</sup>/ 25 kg bags @ 2 mm thickness

### **Packaging**

TAG 116 is available in 20 kg and 25 kg bags.

### **Storage**

TAG 116 has a shelf life of 12 months when stored in its original unopened packing in dry conditions. Shelf life may reduce if the recommended storage conditions changed.

### **Safety Instructions**

Like any cementitious tile adhesive, TAG 116 contains hydraulic cement and may cause irritation to skin or eyes. For further information Refer to the Material Safety Data Sheet.

### **Disclaimer**

Manaseer Industrial Complex has the right to amend its datasheets anytime. Please make sure to have the latest published datasheet version.

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