

# CERAMICA 400

## General Purpose, Non-shrink Cementitious White Tile Adhesive

### PRODUCT DESCRIPTION

Ceramica 400 is a cementitious, non-shrink, polymer containing, thin bed tile adhesive used for permanent fixing of tiles. Suitable for tropical and hot climatic conditions

### USES

Ceramica 400 is suitable for fixing:

- Wall and floor tiles
- Insulation and acoustic tiles
- Marble and terrazzo tiles
- Mosaics

### ADVANTAGES

- High bond strengths
- Easy to use, just add water
- Excellent workability
- Excellent pot life
- Can be applied directly on cement screeds, concrete or lime mortars.
- Non Toxic
- Suitable for indoor and outdoor application

### PRODUCT DATA

**Type** Cementitious powder

**Form** White Powder

**Packaging** 20 kg bags

**Storage Condition** In a dry area between 5°C and 40°C. Protect from direct sunlight

**Shelf life** 12 months minimum from production date if stored properly in original unopened Packaging

#### Technical Data

**Mixing ratio** Add 24 -26 % cold, clean water by weight of powder or 4.8 – 5.2 liters per 20 kg bag

**Pot life** Approximately 60 minutes at 30°C

**Open Time** Approximately 30 minutes at 25°C (Skinning Wacker Method)

**Density** Fresh mortar - Approximately 1.90 kg/ltr

#### **Mechanical Strengths (28 day)**

Compressive strength - approximately 20 N/mm<sup>2</sup>

Adhesive strength - approximately 1.5 N/mm<sup>2</sup>

**Coverage** One 20 kg bag will cover approximately 4.5 – 6.6 m<sup>2</sup> at 2 - 3 mm thickness

**Temperature** Minimum 5°C, Maximum 40°C (substrate)

#### Application Details

##### **Substrate preparation Concrete, mortar and masonry**

Surfaces must be clean, free from grease, oil and loosely adhering particles. Suitable mechanical methods such as abrasive blast cleaning; high pressure water jetting at sufficient pressure (minimum 150 bar) and volume; scabbling

or needle gunning. On “new” or smooth faced concrete, surfaces should be sand-blasted. All surfaces must be as true and flat as possible. Blow holes and irregularities should be filled with suitable citychem products.

Saturate absorbent concrete surfaces thoroughly with water to achieve a surface saturated dry (SSD) condition.

**Mixing** Add about 4.8 – 5.2 litres clean, cold water to a clean, suitable mixing container. Slowly add the CERAMICA 400 powder and mix for at least 3 minutes until a homogeneous mix, free of lumps is achieved. Do not mix more

. CERAMICA 400 than can be used within the open time

**Do not add extra water or other ingredients after mixing!**

**Application** Apply CERAMICA 400 at 2 - 3 mm thickness directly to the concrete substrate, using a notched trowel and spread the mortar evenly over the area to be tiled.  
Cover only an area that can be tiled within 15 - 30 minutes.  
Press tiles firmly into CERAMICA 400 with a twisting action to ensure optimum adhesion.

1. Use 4-4.5 liters of clean water per 20 kg bag
2. Mix well with a hand trowel. For large volume mixing use a slow speed drill (maximum 500rpm)
3. Apply with "V"-notched trowels for small tiles
4. Apply with square notched trowel for bigger tiles
5. Place the tiles firmly into the fresh adhesive

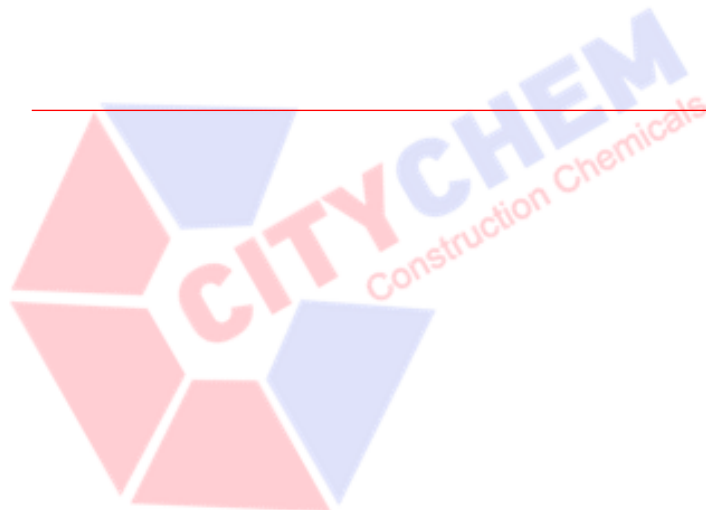
**Curing** Where ambient conditions may lead to rapid surface drying, the use of lightwater fogging for 48 hrs., hessian or suitable water based curing compound is recommended. Do not commence fogging until final set has been reached.

**Cleaning** Application and mixing tools should be cleaned with water while material is still fresh. Hardened material can only be removed mechanically.

**Notes** All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

**Remarks** CERAMICA 400 should not be used directly on gypsum or gypsum board substances. Contact our Technical Service Department for advice.

**SAFETY** For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

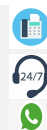


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