

# TA50 MULTIPURPOSE ADHESIVE

DS-EN-TA50-0727

TM technology department

## PRODUCT NAME

TA50 Multipurpose Adhesive

## COLOR

Grey or White

## MANUFACTURER

TAMMY Energy-saving Building Materials  
(Beijing) Co., Ltd.**Website:** [www.thmaterials.com](http://www.thmaterials.com)**Customer Service Hotline:**

400-811-1515 (China)

86-10 68315916 (International)

**Headquarter:** Room 902-1, Macro Link  
Industrial Mansion, #5 Jiachuang Road,  
Tongzhou District, Beijing, China**Fax:** 86-10 68318106

## PRODUCT DESCRIPTION

TA50 Multipurpose Adhesive is a polymer modified high performance thin-set mortar for most of the applications. This product has unsurpassed flexibility, adhesion and excellent water resistance and weather resistance performance.

## FEATURES AND BENEFITS

- Wide application, high adhesion
- Excellent flexibility, anti-shocking, and durability
- Water resistance, efflorescence prevention
- Easy to use, just mix with water
- No VOC, green, environment friendly

## USES

- Most types of tile and stone, especially the large format, low water absorption tile
- Walls and floors
- Interior and exterior
- Dry or wet areas

For all other applications, please consult with

The datasheet is subject to change without notice. For the latest version, visit [www.thmaterials.com](http://www.thmaterials.com)

## SUITBLE SUBSTRATES

- Concrete
- Masonry
- Concrete block
- Cement mortar beds
- Cement backer boards (see cement backer board manufacturer's installation guidelines)
- Gypsum wallboard (interior dry walls only )
- Exterior-grade plywood (interior, residential and light commercial in dry conditions only)
- Properly prepared vinyl composition tile (vct) (interior only)
- Properly prepared existing ceramic/porcelain tile and stone

## PACKAGING

20kg/bag

## APPROXIMATE COVERAGE

1.6kg/mm/m<sup>2</sup>

## SHELF LIFE

Storage temperature range between 5°C and 35°C, in dry and cool area, the product shelf life in factory sealed containers is 12 months..

\* High humidity will reduce the shelf life of bagged products.

## LIMITATIONS AND CAUTIONS

- Mixed mortar should be finished within 4 hours and stirring every half hour to keep well operability, cured mortar should be discarded.
- 24 hours after curing is needed before other installation (grouting).
- No watering allowed during and within 48 hours of installation

- Tools need to be cleaned immediately after application as it is difficult to clean after curing
- Keep out of reach of children
- The product contains cement that is stimulus to eyes and the skin, necessary protection tools (clothes) are needed during installation. In case of splashing to the eyes, clean with sufficient water and go to see the doctors when necessary.

## TECHNICAL DATA

### PHYSICAL PROPERTIES

(Meets or exceeds ISO13007 C2TES1 standard.)

Test	Testing Results	Specification
Original Tensile Adhesive Strength /MPa	2.0	$\geq 1.0$
Water Immersion Tensile Adhesive Strength /MPa	1.2	$\geq 1.0$
Thermal Aging Tensile Strength /MPa	1.4	$\geq 1.0$
Freeze/Thaw Cycle Tensile Adhesive Strength /MPa	1.3	$\geq 1.0$
Open Time After 20 Minutes, Tensile Adhesive Strength /MPa	1.1	$\geq 0.5$

### WORKING PROPERTIES

Mixing ratio	Powder : water =4:1 (weight ratio)
Product density	About 1400kg/ m <sup>3</sup>
Open Time	20 minutes
Adjustment time	15 minutes
Pot life	4 hours
Time to Heavy Traffic	> 24 hours
Wet Density	About 1600kg /m <sup>3</sup>

## APPLICATION

### TOOLS

Low-speed Mixer, Mixing Container, Notched Trowel, Leveler, Tile Vibrator, Sucker, Spacer,

Towel, Tile cutter, Knife etc...

### TILE AND SUBSTRATE PREPARATION

Inspect the back of tiles, if there is any releasing agent on the back, clean it with brush. The surface temperature should be between 5°C and 35°C. The surfaces also should be structurally sound, dry, clean and free of grease, oil, dirt, chemical agents such as sealers or curing compounds. Rough or uneven concrete surface should made smooth with cement underlayment to provide the required finish. The dry concrete substrate with high water absorption rate should be dampened and the excessive water should be wiped off before installation.

### INSTALLATION

#### 1) Mixing

Based on the mixing ratio powder: water = 4:1 (weight ratio), carefully pour the required amount of clean water into a clean mixing container and slowly add the mortar powder. Mix with a low-speed mixer (about 350rpm) to a smooth, creamy paste consistency. Allow the mortar to slake in the container for 5-10 minutes and remix. Mix occasionally to keep mix fluffy without adding more water and powder.

#### 2) Application

Use a suitable sized notched trowel with sufficient depth to ensure full bedding of the tile. For the large tiles (> 300\*300mm), back butter to reach full bedding.

Apply mortar by using the flat side of the trowel to the substrate with pressure. Apply additional mortar and comb it in a single direction with the trowel notched side.

Place the tiles into the wet mortar and beat in using a rubber mallet or tile vibrator to press tile to help achieve maximum coverage. Ensure proper contact between mortar, tile and substrate by periodically removing a few tiles to inspect for acceptable coverage. If mortar is skinned over, remove and replace with fresh mortar.

Remove excess mortar from the joints so that at least 2/3 of the tile depth is available for grouting.

#### 3) Cleaning

Clean hands, tools and tile surface while mortar

is fresh.

#### **4) Protection**

Protect from traffic for 24 hours. Protect from frost and rain for 7 days

### **AVAILABILITY AND PRICE**

#### **AVAILABILITY**

TAMMY products are available worldwide.

For distributor information:

Tel: 400-811-1515 (China)

86-10 68315916 (International)

Email: [tammy@thmaterials.com](mailto:tammy@thmaterials.com)

#### **PRICE**

Contact a TAMMY representative / Authorized dealer in your area.

### **TECHNICAL SERVICE**

#### **TECHNICAL ASSISTANCE**

Information is available by calling the TAMMY Technical Service at:

Tel: 400-811-1515 (China)

86-10 68315916 (International)

FAX: 86-10 68318106

#### **DS AND MSDS**

DS and MSDS are available on TAMMY website: [www.thmaterials.com](http://www.thmaterials.com)

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**TAMMY ENERGY-SAVING BUILDING  
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