



# TA05 MULTIPURPOSE THIN-SET MORTAR WITH POLYMER

DS-EN-TA05-20170427

## PRODUCT NAME

TA05 Multipurpose Thin-Set Mortar With Polymer

## COLOR

Grey or White

## MANUFACTURER

**TM Building System Canada Limited**

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## PRODUCT DESCRIPTION

TA05 is a single component, polymer modified, thinset mortar which requires only water to become a versatile setting system for more demanding tile installations.

## FEATURES AND BENEFITS

- Exceeds ISO13007 C1TP1 standard
- Exceeds ANSI A118.4 and ANSI A118.11 requirements
- Easy to use, just mix with water
- Non-sag Performance
- No VOC, green, environment friendly

## USES

- Absorptive and non-absorptive, semivitreous and vitreous ceramic tile, and quarry tiles
- Walls and floors
- Interior and exterior

## 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 use only)
- Properly prepared existing ceramic/porcelain tile and stone

## PACKAGING

22.7kg/ bag (50 lb/bag)

## APPROXIMATE COVERAGE

**Notch Size (Inches)**      **Approx.Coverage**

1/4x1/4x1/4-Square      80 sq.ft.(7.5 sq.m)

1/4x3/8x1/4-Square      65 sq.ft.(6 sq.m.)

Trowel Notches -Width x Depth x Space Apart

## 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



## TECHNICAL DATA

### PHYSICAL PROPERTIES

(Meets or exceeds ISO13007 C1TP1 standard.)

Test	Testing Results	Specification
Original Tensile Adhesive Strength /MPa	1.10	$\geq 0.5$
Water Immersion Tensile Adhesive Strength /MPa	0.98	$\geq 0.5$
Thermal Aging Tensile Strength /MPa	1.02	$\geq 0.5$
Freeze/Thaw Cycle Tensile Adhesive Strength /MPa	0.87	$\geq 0.5$
Open Time After 20 Minutes, Tensile Adhesive Strength /MPa	0.85	$\geq 0.5$
Sliding/mm	0.4	$\leq 0.5$

### WORKING PROPERTIES

Mixing ratio	Powder : water =4.3 : 1 (weight ratio)
Product density	About 1400kg/ m <sup>3</sup>
Open Time	20 minutes
Adjustment time	15 minutes
Pot life	2 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 be 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 = 4.3:1 (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

**CAUTION:**

Contains Portland cement. If any cement or cement mixtures get into eye, flush immediately and repeatedly with water and consult a physician promptly. Freshly mixed cement, concrete or grout may cause skin injury. Avoid contact with skin where possible and wash exposed areas promptly with water.

**WARRANTY:**

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**AVAILABILITY AND PRICE**

**AVAILABILITY**

TM products are available worldwide.

For distributor information:

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**PRICE**

Contact a TM representative / Authorized dealer in your area.

**TECHNICAL SERVICE**

**TECHNICAL ASSISTANCE**

Information is available by calling the TM Technical Service at:

Tel: 905-275-7545

Email: [info@tammycanada.com](mailto:info@tammycanada.com)

**TDS AND SDS**

TDS and SDS are available on TM website:

[www.tammycanada.com](http://www.tammycanada.com)