



TA50 PREMIUM LARGE FORMAT TILE MORTAR

DS-EN-TA50-20170502

PRODUCT NAME

TA50 Premium Large Format Tile Mortar

COLOR

Grey or White

MANUFACTURER

TM Building System Canada Limited

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Canada

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PRODUCT DESCRIPTION

TA50 is a single component, polymer fortified, thinset mortar which requires only water to become a versatile setting system. TA50 is especially designed to give a higher bond strength than given by conventional polymer modified thinsets so as to allow more demanding tile installations to be carried out, such as over radiant-heated subfloors.

FEATURES AND BENEFITS

- Exceeds ISO13007 C2TES1P1 standard
- Exceeds ANSI A118.4 and ANSI A118.11 requirements
- Non-sag, non-slump for large-format tile and stone applications
- Can be used as a medium bed up to 3/4" (19mm) thick
- Wide application, high adhesion
- Excellent flexibility, anti-shocking, and durability
- Water resistance, efflorescence prevention

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 TM technology department

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

22.7kg/ bag (50 lb/bag)

APPROXIMATE COVERAGE

Notch Size	Approx.Coverage
1/4"x1/4" x1/4"(6x6x6mm)	80sq.ft.(7.5sqm)
1/4"x3/8"x1/4" (6x9x6mm)	65sq.ft.(6sqm)
1/2"x1/2"x1/2" (12x12x12mm)	42sq.ft.(4sqm)
3/4"x9/16"x3/8"(19x14x9mm)	38sq.ft.(3.5sqm)

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 C2TES1P1 standard.)

Test	Testing Results	Specification
Original Tensile Adhesive Strength /MPa	1.67	≥ 1.0
Water Immersion Tensile Adhesive Strength /MPa	1.29	≥ 1.0
Thermal Aging Tensile Strength /MPa	1.34	≥ 1.0
Freeze/Thaw Cycle Tensile Adhesive Strength /MPa	1.21	≥ 1.0
Open Time After 20 Minutes, Tensile Adhesive Strength /MPa	1.05	≥ 0.5
Slip/mm	0.4	≤ 0.5
Lateral Deformation/mm	4.0	--

WORKING PROPERTIES

Mixing ratio	Powder : water =3.8-4.3 :1 (weight ratio)
Product density	About 1400kg/ m ³
Open Time	30 minutes
Adjustment time	15 minutes
Pot life	3 hours
Time before grouting	20-24hours
Time to Heavy Traffic	> 24 hours
Wet Density	About 1600kg /m ³

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 = 3.8-4.3:1 (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:

The liability of TM is limited to the replacement of its products containing manufacturing defects. The foregoing warranty constitutes the sole liability of TM with respect to this product,

and is in lieu of and excludes all other conditions, warranties, guarantees, obligations, rights or representations (including any warranties of merchantability, fitness or durability), whether expressed or implied and whether arising by operation of law or otherwise. TM shall not be liable for any damages whatsoever, including any damages for negligence or fundamental breach or for personal injury or property damage, direct, or indirect, consequential or special, resulting from or alleged to have resulted from the use of or the inability to use the product. No representative of TM or any other person or entity has any authority whatsoever to assume any other warranty on behalf of TM. This warranty may not be modified or amended.

AVAILABILITY AND PRICE

AVAILABILITY

TM products are available worldwide.

For distributor information:

Tel: 905-275-7545

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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

TDS AND SDS

TDS and SDS are available on TM website: www.tammycanada.com