

Thin Set Install

► 3.3 THIN SET INSTALLATION PROCEDURES

A. Install Detectable Warning Panels in accordance with TCA Handbook for Tile Installation and ANSI A108.5 Specifications.

B. All expansion and control joints must be carried through all layers of installation materials including warning panels, setting bed, mortar bed, concrete substrate and steel reinforcing. Joints should be spaced typically 8' to 12' in both directions. All perimeter edges of ramps or blended transitions should have expansion joints. (Refer to TCA Handbook current issue of EJ-171 for details on placement, size and specifications of materials)

C. Install Detectable Warning Panels with a **polymer modified medium bed thin set** material complying with ANSI A118.4 in accordance with manufacturer's installation instructions utilizing a ½"x½"x½" square notched trowel.

D. Using flat side of trowel, apply a skim coat of mortar. Apply additional mortar with notched side of trowel held at 45° angle to the surfaces, combing in one direction. Do not spread more thin set than can be set within working life. If material is past working life, remove and replace with fresh material.

E. Pre-dampen back of tactile panels saturated surface dry (SSD) with clean water and parge back of panel with medium bed thin-set simultaneously while the mortar is being applied to the substrate. Adjust panels promptly and lightly tap panels to proper grade with rubber mallet to insure 100% surface contact with substrate. **Wedge or flared edge of panel facing the curb.**

F. Base of truncated dome shall be flush with adjacent surfaces to permit proper drainage and eliminate tripping hazard between surfaces. Tolerances between tactile panels and surrounding surfaces is 1/16" maximum. Immediately after placement re-check slope and elevation for proper grade.

G. Traffic should be kept off the detectable warning panels according to thin set manufacturer's recommendations.

H. Provide joint widths indicated in drawings.

I. Panel Joints should be allowed to cure for minimum 24 hours before grouting or light traffic, depending upon temperature and humidity. Blow out all dust and debris in open panel joints.

J. Before grouting mist all sides of panel joints with cool clean water. Keep panel joints in a saturated dry condition (SSD) before grouting. Remove ponding water from bottom of joint opening before grouting. Maximum surface temperature for open panel joints to be grouted is 90° F.

K. Mix colored grout at a 1:2 ratio of gray or white portland cement (depending on panel color) and 30 mesh white sand with 1:1 ratio

of acrylic admix and potable water; add integral color pigment to match CASTinTACT® panels.

L. Apply colored grout into (SSD) panel joints, forcing grout filling entire panel joint. (A mortar squeeze bag works well for dispensing the mortar and tuck pointing tool works well for compacting mortar in the joint opening.)

M. Immediately clean excess mortar smears off panels and adjacent surfaces with a damp sponge to ensure a clean appearance. Change rinse water often to keep surfaces clean. Usually 2 or more clean sponge rinses are required.

N. After initial set of colored grout, finish joints with brick jointer to produce a slightly concave polished joint, free from cracks.

O. Proper curing of grout entails periodically misting the installation with clean, cool water for a period of 72 hours. Alternatively apply a cure coat to grout joints with a 1:1 ratio of acrylic admix mixed with potable water. Use a paint brush to apply a thin mil cure coat keeping off face of warning panels. Do not over apply cure coat; it will not dry clear.

P. Expansion Joint sealing should be performed a minimum 7 days after grouting of panel joints. Compatible expansion joint sealant must conform to ASTM C920, color to match panels. Tool joints to produce a slightly concave polished joint. Follow sealant manufacturer's recommendation for joint preparation and installation procedures.

► 3.4 CLEANING

A. Remove all unused material, tools, and equipment. Dispose of properly.

B. If the detectable / tactile surface requires, clean the panels in accordance with **CASTinTACT® Cleaning and Maintenance Guide.**

► 3.5 PROTECTION

Protect the **CASTinTACT® 3** Warning Panel surface from traffic until desired strength is achieved. If necessary, protect panels with plywood and an underlayment layer of non-staining, non-woven curing blanket until acceptance of work. Secure plywood if needed.

► 3.6 STORAGE

Store products under cover in manufacturer's unopened packaging until ready for installation. Store pallets on supported flat surface. **DO NOT DOUBLE STACK PALLETS.**

Download the full specifications online at
www.CASTinTACT.com

Thin Set Install

US Patent No 7,000,361 & 7,121,048
And Other Patents Pending.



1
Finish substrate 1-3/8" below finish grade.



2
Measure tactile area for precutting of panels.



3
Panels can be easily cut with diamond blade.



4
Panels can be radius cut around vault boxes.



5
Install tactile panels with polymer modified medium bed thin set material. Wedge or flared edge of panel facing the curb.



6
Pre-Mix grout and color pigment to match CASTinTACT® panels.



7
Expansion and panel joints must be installed and in compliance with TCA EJ171.



8
CASTinTACT® - THE DEPENDABLE CONCRETE SOLUTION!