

5270000 DETECTABLE WARNINGS ON WALKING SURFACES
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

Mario Paredes / Ron Simmons
352-955-6690 / 352-955-6691

Comment: (12-6-10, Internal)

1. Delete the highlighted text (from table in 527-2.2): Average Volume Loss: no more than 0.06 cm^3

Response: This has been deleted. Change made.

2. Change the highlighted text (from table in 527-2.2): * Applies only to plastic-cementitious materials.

** Applies only to surface-applied materials.

Response: The standard for testing for water absorption is ASTM D-570, Standard Test Method for Water Absorption of Plastics. Language clarified to “Applies only to plastic materials”.

Barry Smith
414-4776

Comments: (12-6-10, Internal)

1. Insert the word “consisting”

527-2.1 Detectable Warning: Provide Detectable Warnings in accordance with the Americans with Disabilities Act Standards for Transportation Facilities, Section 705. Use Detectable Warnings *consisting* of materials intended for exterior use subject to routine pedestrian traffic and

Response: Word has been added.

2. Delete the word “surface”

527-2.1.1 Preformed Materials: Use Detectable Warnings consisting of weather-resistant tiles, or pavers *that are cast into concrete, or tiles or mats that are surface-applied* adhered to concrete or asphalt ~~substrates~~ *surfaces* ~~– and have~~ *with* mechanical bond or fasteners, or torch-applied preformed thermoplastic. ~~Preformed products may be used only if listed on the Qualified Products List in accordance with 527-2.4.~~

Response: The word “surface” is included to clarify the different methods of application – those cast in place vs. applied to existing surfaces. No change made.

3. How will this be tested?

527-2.3 Color/Contrast: Use safety yellow, brick red or black colored Detectable Warnings on concrete walking surfaces. Use safety yellow colored Detectable Warnings on asphalt walking surfaces. Acceptable Detectable Warnings as listed on the Qualified Products List will *shall* meet the following criteria for a duration of three years.

Response: This criteria has to be met in order to be included on the QPL. No changes made.

Troy Carroll
850-223-2155
tcarroll@flintrading.com

Comments: (12-21-10)

I have a question regarding the Adhesion/Bond requirement for surface applied products from the chart of section 527-2.2. It requires 150 psi minimum, but I don't see in the spec where it is required to be 100% coverage under the product. I read test method 5-589 and did not see it there either.

My question – is there a 100% coverage requirement for this test?

Response: Based on the research conducted by SMO, it was determined that 100% adhesion would be required. Language has been added.

From the Specifications Office: The following was added to 527-3 Installation Procedures – *“For surface-applied tiles or mats, use both full-coverage adhesives and mechanical fasteners.”*

Ken Zinck
386-740-3471
ken.zinck@dot.state.fl.us

Comments: (1-4-11)

(Tammie Andrews/Orlando Operations)

As the Spec. is currently written it includes the following details in 527-2.4 Qualified Products List:

.....Application must include manufacturer's installation drawings that describe detailed quality control requirements for installation including, but not limited to: special materials and/or equipment; recommendations for cleaning/preparing substrate surfaces; bonding method describing thickness, spread rate and/or curing time(s) of grout or adhesive materials; mechanical anchorage; and protection of Detectable Warning materials during set-up/curing period.

As proposed, the Spec. deletes the detailed items above. I recommend NOT approving this Spec. change as proposed. There is no value to eliminating the necessary details provided in 527-2.4. In addition, I think we should consider adding a 60 or 90 day warranty period for the mats in to our Specs. I have seen several local projects that have loose or missing mats shortly after installation. The manufacturer's warranty may not be strong enough language to get the contractor back out to fix an installation problem.

Response: The inserted text in this subarticle requires, as a condition for consideration for evaluation for QPL inclusion, the manufacturer to submit drawings, specifications and procedures for materials, installation, touch-up and repair. No changes made.

Chris Papastratis
957-777-4193
Chris.Papastratis@dot.state.fl.us

Comments: (1-5-11)

527-2.3 Color/Contrast: Use safety yellow, brick red or black colored Detectable Warnings on concrete walking surfaces. Use safety yellow colored Detectable Warnings on asphalt walking surfaces.

THAT IS WHAT IT SAYS. Our comment is as follows: There are areas within the same project limits where the detectable warning surfaces are applied to both concrete and asphalt. For aesthetic purposes (consistent use of colors) and costs (2 colors vs. 1 color) it may be beneficial to allow brick red on asphalt surfaces.

Response: Research by the U.S. Access Board has determined that only light colors will provide the require contrast between detectable warnings and asphalt. The ADA Standards require a 'light-on-dark' or 'dark-on-light' color/contrast. They recommend 70% contrast, using a light meter. The Access Board recommends, on concrete: use black, brick-red or safety yellow; on asphalt: use white or safety yellow. This specification is consistent with these recommendations. No changes made.
