

Date: March 14, 2015

TECHNICAL SPECIFICATION

Secoin Encaustic Cement Tiles

SECOIN Encaustic Cement Tiles have been certified to conform to the Standard for Cement Tiles code TCVN 6065:1995. **Certificate Number SP1616.15.15** issued by Vietnam Certification Centre (QUACERT) on 21 January 2015 and **valid until 20 January 2018** (to be enclosed with this document).

SECOIN Encaustic Cement Tiles meet or exceed the technical specification required by TCVN 6065:1995.

Below is an excerpt of technical requirements from the Standard:

- 4.1. Surface of tiles has a layer with one color or multi-color patterns. Surface of plain color tiles must be equal and homogeneous. Patterned tiles must have sharp lines and not blurred. Minimum thickness of decorative layer is not less than 2.5mm.
- 4.2. Surface of tiles must be flat and without scratches. Corners must be square, edges must be without flashes. Depending on acceptable defects on appearance, cement floor tiles shall be divided into two grades as given in table 1:

Table 1

Name of defects	Allowed level	
	First grade	Second grade
1. Maximum tolerance of square corners in mm is not bigger than	0.5	1
2. Maximum of warping surface in mm is not bigger than	0.5	1
3. Maximum of curving edges in mm is not bigger than	0.1	0.2
4. Maximum of color blurring, tolerances between lines and connection of patterns compared to standard samples, in mm, is not bigger than.	1	2
5. Breakage of edges on facing layer, its depth is not over 1mm and its length is not over 10mm. Calculated by marks, spots is not over	1	2

6. Breakage of corners on facing layer is not over 3mm. Calculated by marks, spots is not over	0	1
7. Breakage of base layer with size is not over 10mm. Calculated by marks, spots is not over	1	2

4.3. Both first and second grades of cement floor tiles must meet physical standards as following table 2:

Table 2

Name of criteria	Parameter
1. Abrasion of facing layer (g/cm ²) is not over	0.45
2. Water absorption (%) is not over	10
3. Compressive strength and impact strength, times, not less than	25 (times)
4. Breaking load pressed on whole tile, daN/tile is not less than	100
5. Hardness of facing layer	passed

For and on behalf of Secoin BM Corp



**VICE GENERAL DIRECTOR
VO THI LIEN HUONG**