

## TFI Report 450971-04

### Emission of Formaldehyde EN717-1

**Customer**

LG Hausys Ltd.  
One IFC, 20 Yeouido-gong, Yeongdeungpo-gu  
Seoul 150-876  
SOUTH KOREA

**Product**

resilient floor covering  
Decotile 3.0

**Responsible at TFI**

Dipl.-Ing. Gerd Bittner  
Tel: +49 241 9679 213  
[g.bittner@tfi-online.de](mailto:g.bittner@tfi-online.de)

This report includes 2 pages and 1 annex(es).

**Aachen, 29 July 2015**

**Dr. Ernst Schröder**



The present document is provided with a qualified electronic signature and is valid without autograph signature.

This report only applies to the tested specimens and has been established to the best of our knowledge. Only the entire report shall be reproduced. Under no circumstances, extracts shall be used. Furthermore, we apply the "General Terms and Conditions for the Execution of Contracts" of the Textiles & Flooring Institute GmbH, also with regard to the order execution.

## 1 Transaction

Test order	Formaldehyde EN 717-1
Order date	8 June 2015
Your reference	Dan Bi Choi
Product designation	Decotile 3.0
TFI sample number	15-06-0075
Date of sample receipt	8 June 2015
Sampling performed by	customer

## 2 Product Specification

Use surface	not tested
Construction	heterogeneous
Structure	flat
Pattern	multicoloured, patterned
Colour of the use surface	brown, dark brown
Type of delivery	tiles
	*customer information

## 3 Results

Formaldehyde EN 717-1	requirements of the German Chemicals Prohibition Order § 1 (3) [Chemikalienverbotsverordnung] fulfilled
	requirements of the emission category (class) <b>E1</b> according to EN 14342 fulfilled

<sup>1</sup> determination threshold cf. annexes

## 4 Annexes

Formaldehyde EN 717-1 <sup>a</sup> FOR 450971-04

The annexes marked <sup>a</sup> are based on tests accredited in accordance with EN ISO/IEC 17025.

# Annex FOR - Formaldehyde EN 717-1

## 1 Transaction

Product designation	Decotile 3.0
TFI sample number	15-06-0075
Testing period	16 June 2015 - 20 July 2015

## 2 Test Method / Requirements<sup>1</sup>

Determination of formaldehyde	EN 717-1
Chamber method	
volume test chamber	0.1 m <sup>3</sup>
chamber load	1 m <sup>2</sup> /m <sup>3</sup>
air exchange rate	1/h
temperature	23 °C ± 0.5 °C
relative humidity	45 % RH ± 3 % RH
Detection limit	0.01 ppm formaldehyde (1 ppm = 1.24 mg HCHO /m <sup>3</sup> )
Deviation	- none -

## 3 Results<sup>1</sup>

Parameter	CAS No.	Emission of formaldehyde after 96 h (4 days)		Requirement <sup>2</sup> [ppm]	Fulfilled
		Steady-state concentration [mg/m <sup>3</sup> ]	Steady-state concentration [ppm]		
Formaldehyde	50-00-0	< 0.01	< 0.01	0.1	Yes

<sup>1</sup> The test is performed by an accredited subcontractor.

<sup>2</sup> Chemikalienverbotsverordnung [German Chemicals Prohibition Order] § 1 (3), EN 14342