



## Amtliche Materialprüfstelle Glas und Keramik

Fachhochschule Koblenz - Amtliche Materialprüfstelle Glas und Keramik  
Rheinstraße 56 - 56203 Höhr-Grenzhausen

**TOPCER – Ind. Cerâmica, Lda.**  
**Carlos R. Miguel**  
**Largo da Estacao, N° 8 - 2° Fte**  
**2750-340 Cascais**  
**PORTUGAL**

### Höhr-Grenzhausen Amtliche Materialprüfstelle Glas und Keramik

- Keramische Rohstoffe
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- Mineral- und Gefügeuntersuchungen
- Wärme- und Verfahrenstechnische Untersuchungen

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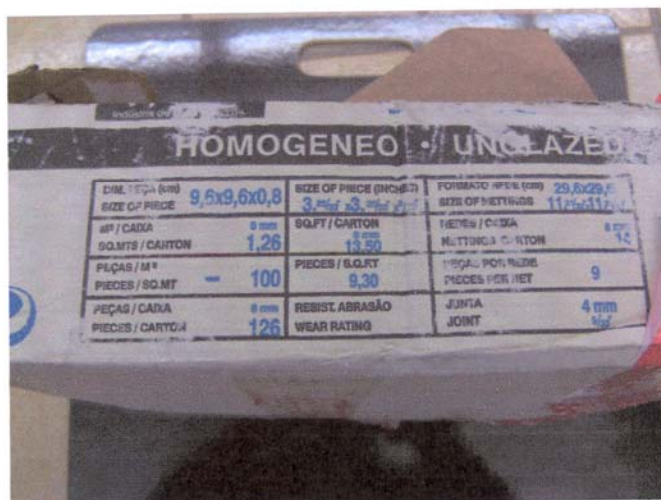
### **Test Certificate KP 256-5 / 08 – 27.11.2008**

**Testing of floor covering – Determination of the anti-slip properties.**  
**Workrooms and fields of activities with raised slip danger -**  
**walking method – ramp test according DIN 51130 and BGR 181**  
**Test specimen : 4401 – smooth finish**  
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Customer	:	<b>TOPCER – Ind. Cerâmica, Lda.</b>
Manufacturer	:	<b>TOPCER – Ind. Cerâmica, Lda.</b>
Test specimen	:	<b>4401 – smooth finish</b>
Further details	:	<b>tiles</b>
Size	:	<b>10 cm x 10 cm</b>
Intended use	:	<b>Workrooms and fields with raised slip danger</b>
Sampling	:	<b>by client</b>
Date of testing	:	<b>27.11.2008</b>



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Test result

Average total acceptance angle : **10,9°**  
 Average expansion space : not determined

Assessment, Suitability

Classification for slip resistance : **R10**  
 Evaluation group of expulsion space : not determined

Unsecureness of measurement

Allowed measurement error of slope : **< 0,2°**

Validity of Test Certificate

This test report is valid provided that the basic parameters of the test given above are applied and that the products are identical with the test samples .

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Closing words

The examinations were carried out carefully according to the latest scientific-technical knowledge , as competently and accurately as possible.

The test results refer exclusively to the objects tested .  
 The test report contains 4 pages.

In order to avoid false interpretation , this report may only be distributed as a full copy.



Director of the Test Center  
 Prof.Dr.G.Klein




Chief Engineer  
 Dipl.Ing. B.Ersen