

**SPEKTROCHEM Coatings,  
Adhesives and Polymers Research and Development Centre**

Tarnobrzeg, 2012.05.04.

**Research results of viscosity, outflow time and water vapour permeability for anti-graffiti protective preparation used on construction surfaces.**

Research results No 74a/2012

**Commissioned by:** PHSC Systemy Czyszczące sp z o. o. Droga Dębińska 29, 61-492 Poznań

**Name:** KTX 05 anti-graffiti coating

**Specification:** production date 23.04.2012, campaign no. 23/04/2012/01

**Sample collection:** by the commissioner. See the sample collection report in accordance with PN-EN ISO 15528:2002

Table 1. Determined properties of the tested sample

	Required property	Required value	Determined	Test method according to
1	Viscosity*/ at the shearing speed, dPa • S - 198 s <sup>-1</sup> - 238 s <sup>-1</sup> - 330 s <sup>-1</sup>	No requirements	0.3 **/ 0.3 **/ 0.3 **/	PN-79/C-89404
2	Outflow time from a conical-bottomed container with a 4mm nozzle, s	No requirements	51	PN-C-81701:1997 Method A
3	Water-vapour permeability ratio of the coating, g/(m <sup>2</sup> • d) - I (high) - II (medium) - III (low)	> 150 15-150 <15	320 ± 10 - -	PN-EN ISO 7783-2:2001
4	Water vapour diffusion resistance S <sub>d</sub> , m - I (high) - II (medium) - III (low)	> 1.4 0.14 – 1.4 <0.14	- - 0.066	PN-EN ISO 7783-2:2001

\*/ determined at the temperature of (20±2)°C, condition α=1.09, reading after 1 minute

\*\*/ It is a Newtonian fluid (viscosity is constant regardless of the shearing speed). Additionally, outflow time has been determined – see Table 1 p.2 which is what is done in the case of Newtonian fluids instead of determining dynamic viscosity.

Tests conducted by:

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