

Laborbericht für:

Hobutec GmbH
Donaustr. 44
63452 Hanau

Aufgabenstellung:

Determination of s_d , w_{24} values and dry hiding power

Service No: S 21-12

Versuche durchgeführt von:

Pascal Schuster
Tel.: +49 (0)201 173 2289
Fax: +49 (0)201 173 1881
E-Mail: pascal.schuster@evonik.com

Datum: 10.08.2012

i.A. 

Jürgen Kirchner

i.A. 

Markus Vogel

Tests:

1. Determination of the water absorption according to EN 1062-3

Class	Water	w - value	$\frac{\text{kg}}{\text{m}^2 \sqrt{\text{h}}}$
-------	-------	-----------	--

III	Low	< 0.1
II	Medium	0.1 - 0.5
I	High	> 0.5

2. Determination of the water vapour diffusion according to EN ISO 7783-2:

Class	Water	s _d - value	m
-------	-------	------------------------	---

I	High	< 0.14
II	Medium	0.14 - 1.40
III	Low	> 1.40

3. Determination of the dry hiding power according to Vdl Richtlinie-09

Class	Dry hiding power
-------	------------------

I	≥ 99,5 %
II	≥ 98,0 % and < 99,5 %
III	≥ 95,0 % and < 98 %
IV	< 95,0 %

Results:

1 + 2. Results of water absorption and water vapour diffusion test

Product	w – value				S _d – value
	1. watering	2. watering	3. watering	4. watering	
NanoConcept Fassaden Fit Fassadenfarbe	0,14	0,10	0,06	0,05*	0,078*

Results of the fourth watering are considered in the classification according to EN 1062-3

(*best class according to EN 1062)

	wet film thickness	coverage m ² / l	Dry hiding power [%]
NanoConcept Fassaden Fit Fassadenfarbe	50 µm	14,0377	97,90
	100 µm	12,2840	98,50
	150 µm	8,7689	99,48
	200 µm	6,4793	99,65*

(*best class according to Vdl Richtlinie-09)

