

## TEST REPORT

# 345960 / 1

Revision: 0  
Date of sample receipt: 23/03/23  
Date of test: 14/04/23  
Date of issue: 29/05/23



KEMICAL S.R.L.  
VIA DELL'ARTIGIANATO, 2  
35010 TREBASELEGHE (PD)  
ITALIA

Sample name: IP4100 IDROPAC water-based topcoat for interior (OA4100) with I2655 (C393P) hardener at 10%

## Volatile organic compounds from building and finishing products - UNI EN ISO 16000-9:2006 + ISO 16000-6:2011

### SAMPLE DESCRIPTION

Type of product: waterborne coating applied on glass  
Sampling performed by: customer  
Date of production: unknown  
Date and time of unpacking: 14/04/2023 h 9:00

### EXPERIMENTAL CONDITIONS

Chamber n.	2186-2	Volume	0,11 m <sup>3</sup>
Temperature	23±2°C	Relative humidity	50±5%
Air change rate	0,5/h	Air velocity	0,2±0,1 m/s
Test specimen area	0,11 m <sup>2</sup>	Loading ratio	1,0 m <sup>2</sup> /m <sup>3</sup>

Adsorption material	Tenax TA		
1st Air sampling	14/04/23 h. 09:00	Air sampling duration	50 min
Air sampling flow	0,080 l/min	Air volume	4,0 litres
2nd Air sampling	12/05/2023	Air sampling duration	50 min
Air sampling flow	0,080 l/min	Air volume	4,0 litres

Thermal desorber: Perkin Elmer Turbomatrix 650  
Gaschromatograph: Perkin Elmer Clarus 690 GC  
Mass spectrometer: Perkin Elmer Clarus SQ8T

Quantification: Internal standard - Calibration curve at 5 concentrations (linear regression)

LOD (Limit of Detection) = 1 µg/m<sup>3</sup>

LOQ (Limit of Quantification) = 2 µg/m<sup>3</sup>

Efficiency of adsorption for Toluene and n Dodecane > 95%

Quality of environmental variables: Limits of temperature and humidity not exceeded significantly.

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The managing director  
Dr. Franco Bulian

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TEST REPORT

345960 / 1 rev. 0

Date of issue:

29/05/23

Sample name:

IP4100 IDROPAC water-based topcoat for interior (OA4100) with I2655 (C393P) hardener at 10%

COMPANY Kemichal Srl

DATE OF TEST 14/04/2023

VOLATILE ORGANIC COMPOUNDS	C.A.S. NUMBER	CONCENTRATION (µg/m³)	
		after 72 hours #	after 28 days #
Formaldehyde " §	50-00-0	< 2	< 2
Acetaldehyde " §	75-07-0	< 10	< 10
Acetone " §	67-64-1	< 2	4
Toluene	108-88-3	< 2	< 2
Tetrachloroethylene	127-18-4	< 2	< 2
Xylenes (o- m- p- isomers)	1330-20-7	< 2	< 2
1,2,4 Trimethylbenzene	95-63-6	< 2	< 2
1,4 Dichlorobenzene	106-46-7	< 2	< 2
Ethylbenzene	100-41-4	< 2	< 2
2 Butoxyethanol	111-76-2	8	< 2
Styrene	100-42-5	< 2	< 2
Benzene	71-43-2	< 1	< 1
1, 1, 2 Trichloroethylene	79-61-6	< 1	< 1
Ethyl acetate	141-78-6	< 2	< 2
n Butyl acetate	123-86-4	< 2	< 2
1 Methoxy 2 propanol acetate	108-65-6	< 2	< 2
Ethoxypropanol acetate	54839-24-6	< 2	< 2
Di (n Butyl) phthalate	84-74-2	< 1	< 1
Di ( 2 ethylhexyl) phthalate	117-81-7	< 1	< 1
Acetic acid	64-19-7	15	19
Diethylene glycol monobutylether	112-34-5	177	21
Triethylene glycol n-Butylether §	143-22-6	17	8
Total V. O. C.		217	48

NOTES: # duplicate test n. d. = not determined after 72 hours

" determined with DNPH - HPLC method according to ISO 16000-3:2022.

§ quantified as toluene

§ VVOC

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