



WIT983 ACQUAPUR OPAL 2K WIB980 ACQUAPUR FOND 2K CLEAR

Certified two component interior coatings system



our certifications





VERNITES

Società a Responsabilità Limitata
Via del Lavoro 12/14
I - 21015 - Lonate Pozzolo (VA)

PRODUCT CERTIFICATE CVMD no. 05/15

We hereby certify the conformity of the coating system

Acquapur Fond 2K Clear cat.CW 7800 20%

(1 coat of 120 g/m²)

+

Acquapur opal 2K Clear G30 cat. CW 7800 20%

(1 coat of 120 g/m², 30 gloss)

to the requirements of the

**CATAS QUALITY AWARD
COATING SYSTEMS FOR DOMESTIC FURNITURE**

rev. n. 10 dated 09.02.2017

The system complies also to the requirements of the UNI 11216 for the end uses specified in the table below.

END USE	HORIZONTAL SURFACES	VERTICAL SURFACES
KITCHEN	●	●
BATHROOM	●	●
OTHER DOMESTIC FURNITURE	●	●

December 16th, 2015

FIRST ISSUE

September 3rd, 2018

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December 31st, 2019

VALID UNTIL

CATAS S.p.A.
Iscr. Reg. Imprese Udine
nr.iscr. C.F. 01818850305
Reg. Impr. UD 20663
P.IVA 01818850305
C.Soc. 984.250,00 Euro i.v.
Sede: Via Antica 24/3
San Giovanni al Natisone 33048 (UD)
cqa@catas.com

dr. Andrea Giavon
Chief Executive

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CATAS www.catas.com

Certificate n°: 5 / 2015

Internal protocol n° : 287

Report n° : 3248

Emission date : 16/12/15

Award certificate expiry date : 31/12/19

Certification : CQA Cicli di verniciatura per mobili domestici

Certified product name : Acquapur Fond 2K Clear cat. 20% con catalizzatore CW 7800 + Acquapur opal 2K clear G30 cat. 20% con catalizzatore CW 7800

Spett. VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA
c.a. Paolo Testa

Attachment 1

Summary table of the tests carried out on the coating system for certification

Description	Reference	Prot. nr 200891 Evaluation
Wear resistance Taber *	UNI EN 15185	Class C (135 nr.revol.)
Cross cut test	ISO 2409	0
Resistance to scratching *	UNI EN 15186 (method B)	Class D (1,2 N)
Cold check test	UNI 9429	5
Light fastness	UNI EN 15187	Grey scale 3/4
Resist. to hand creams	MU 2111	1 pencil
Resist. to cold liquids *	EN 12720	Class B
Resist. to wet heat *	EN 12721	Class B
Resist. to dry heat *	EN 12722	Class C
Weathering in dark conditions	MU 2195-07	Grey scale 4/5
Migration of certain elements	EN 71-3	ok
Hardener solid content	EN ISO 3251	80,3 %
Gaschromat. analysis hardener	UNI EN ISO 11890-2	ok
Primer solid content	EN ISO 3251	38,1 %
Gaschromat. analysis primer	UNI EN ISO 11890-2	ok
Finishing solid content	EN ISO 3251	39,7 %
Gaschromat. analysis finishing	UNI EN ISO 11890-2	ok

* Test done in accordance with CEN/TS 16209 Classification for properties for furniture surfaces.

The test for retention to dirt was carried out according to the UNI 9300:2015 method. The result obtained is: rating 5.

COATING SYSTEM CONTROL	SE REQUIREMENT REACHED (UNI 11216)
Catas application	Other horizontal surfaces of kitchen furniture

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Il Direttore
dott. Andrea Giavon



TEST REPORT

200891 / 1

Date received: 31/07/15
Date of test: 26/11/15
Date of issue: 09/12/15

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

Sample name: Ciclo di verniciatura: Acquapur Fond 2K Clear (lotto: 18409/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15)+ Aquapur opal 2K clear G30 (lotto: 19925/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15) - controllo CQA cvmd 2015

Resistance to surface wear UNI EN 15185:2011

Sampling: made by the customer

Application: made by Catas in accordance with the enclosed technical sheet

Description of the tested material:

- substrate: beech veneered panel
- finishing: water borne coating system as described in sample description

Conditioning period: from 19/10/2015 to 26/11/2015.

Sand paper lot: 73693

Apparatus: Taber mod. 503 with abrasion paper strips Taber S-42

Mean wheel hardness: 60-70 Shore A

Test results:

Initial Wear Point (rev. nr.)	Rating Class according to CEN/TS 16209
135	C

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*Managing Director
Dr. Andrea Giavon*

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TEST REPORT

200891 / 2

Date received: 31/07/15
Date of test: 23/11/15
Date of issue: 09/12/15

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

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Cross-cut test UNI EN ISO 2409:2013

Sampling: made by the orderer.

Coating system application: : made by CATAS according to the enclosed technical data sheets.

Conditioning period: from 19/10/2015 to 23/11/2015

Procedure:

Handy single blade cutting tool.

Adhesive tape according to IEC 454-2.

Test results:

Spacing between cuts	Classification 1st zone	Classification 2nd zone	Classification 3rd zone	Coating thickness
1 mm	0	0	0	from 0 to 60 μ m hard support
2 mm	0	0	0	from 0 to 60 μ m soft support
2 mm	0	0	0	from 61 to 120 μ m soft/hard support
3 mm	0	0	0	from 121 to 250 μ m soft/hard support

Classification:

- 0 no coating detached
- 1 less than 5% of coating detached
- 2 5-15% of coating detached
- 3 15-35% of coating detached
- 4 35-65% of coating detached
- 5 over 65% of coating detached

Notes:

- The test was carried out with all spacing cutting tools since the coating thickness was not measured.

COMMENTS NOT COVERED BY ACCREDITATION:

- Results obtained with 1 mm spacing cutting tool are more predictive of defects that may occur when in use.

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TEST REPORT

200891 / 3

Date received: 31/07/15
Date of test: 26/11/15
Date of issue: 09/12/15

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

Sample name: Ciclo di verniciatura: Acquapur Fond 2K Clear (lotto: 18409/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15)+ Aquapur opal 2K clear G30 (lotto: 19925/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15) - controllo CQA cvmd 2015

Resistance to scratching UNI EN 15186:2012, met. B

Sampling: made by the customer

Application: made by Catas in accordance with the enclosed technical sheet

Description of the tested material:

- substrate: beech veneered panel
- finishing: water borne coating system as described in sample description

Conditioning period: from 19/10/2015 to 26/11/2015.

Apparatus: Taber mod. 502

Test results:

Load N	Rating Class according to CEN/TS 16209
1,2	C

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TEST REPORT

200891 / 4

Date received: 31/07/15
Date of test: 19/11/15
Date of issue: 09/12/15

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

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Cold-check test UNI 9429:1989

Sampling: made by the customer

Application: made by Catas in accordance with the enclosed technical sheet

Description of the tested material:

- substrate: beech veneered panel
- finishing: water borne coating system as described in sample description

Sample dimensions: 500x200 mm

Sample edges protection: none

Test results:

Rating scale	Remarks
5	no defects after 15 cycles

Test level reached:	5
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TEST REPORT

200891 / 6

Date received: 31/07/15
Date of test: 01/12/15
Date of issue: 09/12/15

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

Sample name: Ciclo di verniciatura: Acquapur Fond 2K Clear (lotto: 18409/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15)+ Aquapur opal 2K clear G30 (lotto: 19925/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15) - controllo CQA cvmd 2015

Light fastness UNI EN 15187:2007

Sampling: made by the customer

Application: made by Catas in accordance with the enclosed technical sheet

Description of the tested material:

- substrate: beech veneered panel
- finishing: water borne coating system as described in sample description

Apparatus:	Atlas C.i. 3000
Radiation source:	Xenon arc lamp
Irradiance at 420 nm:	1,25 W/mq
Inner filter:	borosilicate
Outer filter:	soda-lime
Black panel temperature:	55 ± 2 °C
Irradiance determination system:	automatic
Relative humidity:	50 ± 10%
Blue wool standard assessment:	instrumental
N. of observers:	2

Test results:

Exposure (hours)	Grey scale	Remarks
20	3/4	///

Light fastness:

Grey scale	Blue wool standard N.
< 4	< 6

Notes:

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TEST REPORT

200891 / 7

Date received: 31/07/15
Date of test: 23/11/15
Date of issue: 09/12/15

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

Sample name: Ciclo di verniciatura: Acquapur Fond 2K Clear (lotto: 18409/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15)+ Aquapur opal 2K clear G30 (lotto: 19925/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15) - controllo CQA cvmd 2015

Surface resistance to cold liquids UNI EN 12720:2013

Description of the tested material:

- substrate: beech veneered panel
 - finishing: water borne coating system as described in sample description
- Conditioning period: from 19/10/2015 to 23/11/2015.

Staining agents	Contact time						
	24 h	16 h	6 h	1 h	10 min	2 min	10 sec
Acetic acid (sol. 10%)	-	4	-	4	-	5	-
Acetone	-	-	-	-	4	-	4
Ammonia (sol. 10%)	-	2	-	4	-	5	-
Citric acid (sol. 10%)	-	4	-	5	-	/	-
Cleansing agent	-	4	4	5	/	/	-
Coffee	-	4	4	5	/	/	-
Ethanol (sol. 48 %)	-	-	4	4	4	-	-
Paraffin oil	5	/	/	/	/	-	-
Water	4	4	4	5	-	-	-
Perspiration basic	-	-	-	5	-	-	-

Evaluations:

/	not necessary
-	not required by the CEN/TS 16209 standard

- 5 = no change
4 = minor change (only visible under reflected light)
3 = moderate change (visible from several viewing directions)
2 = significant change in colour or gloss, slight change of structure
1 = strong change

CLASSIFICATION NOT COVERED BY ACCREDITATION:

Rating Class according to CEN/TS 16209	B
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Notes:

- The staining agents and the contact time are according to CEN/TS 16209 standard.

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TEST REPORT

200891 / 8

Date received: 31/07/15
Date of test: 23/11/15
Date of issue: 09/12/15

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

Sample name: Ciclo di verniciatura: Acquapur Fond 2K Clear (lotto: 18409/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15)+ Aquapur opal 2K clear G30 (lotto: 19925/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15) - controllo CQA cvmd 2015

Surface resistance to wet heat UNI EN 12721:2013

Description of the tested material:

- substrate: beech veneered panel
- finishing: water borne coating system as described in sample description

Conditioning period: from 19/10/2015 to 23/11/2015.

Test results:

Temperature °C	Rating	Remarks
55	5	no visible changes
70	4	slight change in gloss and colour
85	4	slight change in gloss and colour
100	3	change in colour visible from various directions

CLASSIFICATION NOT COVERED BY ACCREDITATION:

Performance class reached
according to CEN/TS 16209

B

Notes:

- Test temperatures are according to CEN/TS 16209:2011.

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TEST REPORT

200891 / 9

Date received: 31/07/15
Date of test: 23/11/15
Date of issue: 09/12/15

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

Sample name: Ciclo di verniciatura: Acquapur Fond 2K Clear (lotto: 18409/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15)+ Aquapur opal 2K clear G30 (lotto: 19925/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15) - controllo CQA cvmd 2015

Surface resistance to dry heat UNI EN 12722:2013

Description of the tested material:

- substrate: beech veneered panel
- finishing: water borne coating system as described in sample description

Conditioning period: from 19/10/2015 to 23/11/2015.

Test results:

Temperature °C	Rating	Remarks
55	5	no visible changes
70	5	no visible changes
100	4	slight change in gloss and colour
140	2	strong mark
180	/	/

CLASSIFICATION NOT COVERED
BY ACCREDITATION:

Performance class reached
according to CEN/TS 16209

C

Notes:

- The test temperatures are according to CEN/TS 16209:2011.

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TEST REPORT

200891 / 10

Date received: 31/07/15
Date of test: 26/11/15
Date of issue: 09/12/15

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

Sample name: Ciclo di verniciatura: Acquapur Fond 2K Clear (lotto: 18409/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15)+ Aquapur opal 2K clear G30 (lotto: 19925/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15) - controllo CQA cvmd 2015

Accelerate weathering test in dark conditions UNICHIM 2195-07

Description of the tested material:

- substrate: beech veneered panel
- finishing: water borne coating system as described in sample description

Procedure:

The test has been carried out maintaining the sample in a oven at 50 ± 3 °C temperature. At the end of testing any changes in colour have been noticed by visual evaluation.

The evaluation is carried out by comparison between the tested sample end the reference sample maintained at 23 ± 3 °C and 50 ± 5 % r.h.

Test results:

Exposure time	Grey scale	DE*	Db*	Remarks
168 hours	4/5	1,19	1,07	///

Notes:

Colour measurements attached.

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Managing Director
Dr. Andrea Glavon

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TEST REPORT

200891 / 11

Date received: 31/07/15
Date of test: 23/11/15
Date of issue: 09/12/15

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

Sample name: Ciclo di verniciatura: Acquapur Fond 2K Clear (lotto: 18409/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15)+ Aquapur opal 2K clear G30 (lotto: 19925/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15) - controllo CQA cvmd 2015

Surface resistance to hand creams M.U.2111:2007

Sampling: made by the customer

Application: made by Catas in accordance with the enclosed technical sheet

Description of the tested material:

- substrate: beech veneered panel
- finishing: water borne coating system as described in sample description

Procedure:

The purpose of the test is to evaluate the behaviour of the surface after a long period of contact with hand creams.

The testing zone is spread of an enough quantity of cream to cover a 40 cm² of surface.

After two hours the tested zone is cleaned with a soft cloth soaked with detergent solution.

A test according to ASTM D 3363 is carried out within one hour from cleaning.

The result of the test is obtained by comparison between the testing zones to a not treated zone.

Creams used for the test:

Cream #1: Nivea soft Crema idratante con olio di jojoba e vitamina E

Cream #2: Glysolid

Test results

	Hardest pencil that doesn't scratch produce any scratches on the surface
Initial hardness	HB
Cream #1	B
Cream #2	HB

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CATAS S.p.A.
Iscr. Reg. Imprese Udine
nr. iscr. C.F. 01818850305
Reg. Impr. UD 20663
P. IVA : 01818850305
C.Soc. € 1.003.650,00 i.v.

Sede: Via Antica, 24/3
33048 S. Giovanni al Nat. UD
Tel. 0432.747211 r.a.
Fax 0432.747250
<http://www.catas.com>
lab@catas.com

Filiale:
Via Braille, 5
20851 Lissone MB
Tel. 039.464567
Fax 039.464565
lissone@catas.com

TECHNICAL REPORT n°: 200891 / 12 del 02/12/15

Date received:	31/07/15	VERNITES S.R.L. VIA DEL LAVORO 12/14 21015 LONATE POZZOLO (VA) ITALIA
Date of test:	30/11/15	
Date of issue:	02/12/15	
Sample name:	Ciclo di verniciatura: Acquapur Fond 2K Clear (lotto: 18409/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15)+ Aquapur opal 2K clear G30 (lotto: 19925/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15) - controllo CQA cvmd 2015	

Migration of certain elements EN 71-3:2002

Sample:

Clear Paint

Analytical methods:

Inductively coupled plasma optical/mass spectrometry ICP-AES and GC-MS

Soluble element	Units	CONCENTRATION
Antimony	mg/kg	< 0,5
Alluminium	mg/kg	< 5
Arsenic	mg/kg	< 0,05
Barium	mg/kg	< 10
Boron	mg/kg	< 5
Cadmium	mg/kg	< 0,5
Tot. Chromium	mg/kg	< 5
Chromium (VI)	mg/kg	< 0,2
Cobalt	mg/kg	< 0,5
Copper	mg/kg	< 5
Lead	mg/kg	< 5
Manganese	mg/kg	< 5
Mercury	mg/kg	< 0,05
Nickel	mg/kg	< 5
Selenium	mg/kg	< 0,5
Strontium	mg/kg	< 5
Zinc	mg/kg	< 5
Tot. Organic tin	mg/kg	< 1

RESULTS:

Tested sample complies with requirements of EN 71-3 Category III standard.

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TEST REPORT

200891 / 14

Date received: 31/07/15
Date of test: 20/10/15
Date of issue: 06/11/15

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

Sample name: Ciclo di verniciatura: Acquapur Fond 2K Clear (lotto: 18409/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15)+ Aquapur opal 2K clear G30 (lotto: 19925/15) cat. 20% con catalizzatore CW 7800 (lotto: 18791/15) - controllo CQA cvmd 2015

Non volatile matter EN ISO 3251:2008

Test conditions

Sample: Polymer dispersions
Aquapur opal 2K clear G30 (lotto: 19925/15)
Temperature: 105±2°C for 60 minutes
Apparatus: Air oven Memmert mod. UFE 500
Type of dish: Aluminium dishes
Solvent added: distilled water

N°	NON VOLATILE MATTER (% w/w)
1	39,7
2	39,7
3	39,8
Mean	39,7
Expanded uncertainty	0,3

The expanded uncertainty stated is estimated at the level of twice the standard deviation corresponding to a confidence level of about 95%)

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TEST REPORT

200891 / 15

Date received: 31/07/15
Date of test: 20/10/15
Date of issue: 06/11/15

VERNITES S.R.L.
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21015 LONATE POZZOLO (VA)
ITALIA

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Non volatile matter EN ISO 3251:2008

Test conditions

Sample: Polyisocyanate solution
Catalizzatore CW 7800 (lotto: 18791/15)
Temperature: 105±2°C for 60 minutes
Apparatus: Air oven Memmert mod. UFE 500
Type of dish: Aluminium dishes
Solvent added: ethyl acetate

N°	NON VOLATILE MATTER (% w/w)
1	80,3
2	80,4
3	80,3
Mean	80,3
Expanded uncertainty	0,6

The expanded uncertainty stated is estimated at the level of twice the standard deviation corresponding to a confidence level of about 95%)

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*Managing Director
Dr. Andrea Giavon*

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After numerous studies and researches done in the development of water-based paints for the food industry, Vernites achieved the certification for two products:

- Acqua Soyz
(an “entry level” mono component paint)

- Acquapur Opal 2K
(a bi component paint that represent the maximum level reached by the Vernites’ range).

This important goal will allow the sale points to offer a certified and guaranteed product line in the rapidly expanding industry of the coating system for food furniture.

The goals that the business wanted to reach required a careful analysis of the current European legislation and an in dept knowledge of the technical regulations of the appropriate products.

It was necessary to:

- 1) establish the correct government regulation to utilise as guide line;
- 2) establish and proof the performance of the coating and at which temperature;
- 3) establish a range of products that the client could use.

In the case of the second point, the certification call for 4 tests to verify the penchant of the coated support to release toxic substances while in contact with food.

The food typologies are divided into 8 categories (fruit, bread, cacao etc.).

Vernites carried out the 4 tests at 40°C (cold product contact surface) and only test D at 70 °C (hot contact with the most aggressive reagent liquid: 95% ethyl alcohol), as indicated by table 1.

Lastly, in the case of the third point, Vernites decided to evaluate the mono component WIT927 Acqua Soyz and the bi component WIT983 Acquapur Opal 2K.

Results have been very satisfactory, so much so that it is possible to utilise both products for almost the entire range of food.

Acquapur Opal 2K can almost cover the full range also at 70 °C, guaranteeing endurance of the coated furniture with hot food placed on top of it.

The tests consist of applying to a coated slide glass a variety of liquid reagents, to simulate the chemical aggressions the food undergo when place to a surface.

In order to achieve the maximum results the glass needs to be coated with the same amount of paint it will be used by the clients.

After we need to wait for 28 days to start the tests, firstly at 40 °C to simulate room temperature and then at 70 °C to simulate contact with hot food (pizza, coffee etc.)

The test needs to be repeated 3 times and the results expressed as arithmetic mean of the 3 values.

Lower is the result, less substances are released by the coating paint at the moment of contact with the simulating liquid.

This test measures the resistance of a non continuous contact with food, in order to measure a continuous contact behaviour (like for a coated food container) are necessary different tests.

We would like to point out that the limit for the reachable extraction for food typology is 8mg/dm² and the presence of a X/2, X/3 or X/5 means that we need to divide the value by the coefficient and that the result needs to be lower of 8mg/dm².

TABLE 1. Overall migration limit reagent liquids UNI EN 1186-5

	Reagent liquid
A	Distilled water
B	Ethyl alcohol 10%
C	Acetic acid 3%
D	Ethyl alcohol 95%

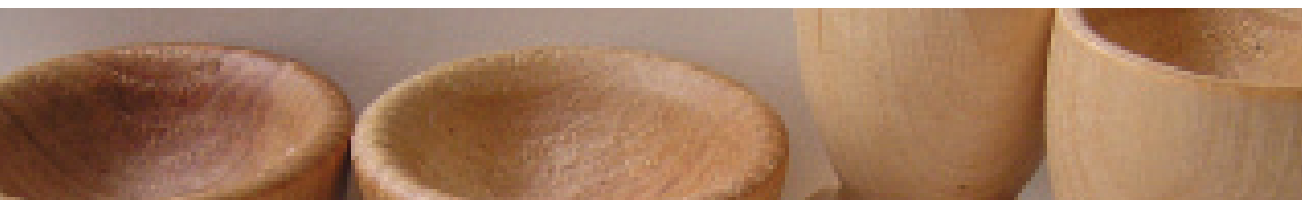
TABLE 2. Food products

				Simulants			
Reference number	Food products	Soyz	Opal 2K	A	B	C	D
01	Drinks						
01.01	Non alcoholic drink or with alcohol percentage lower than 5%: water, siders, fruit or veggie juices, concentrates, must, lemonades, sodas, syrups, bitter, veggie infusions, coffee, tea, liquid chocolate, beers etc.	ok	ok	x	x		
01.02	Alcoholic drink equal or higher than 5%: drinks included in point 01.01 but with alcohol volume higher than 5%: wines, liquors, spirits	ok	ok		x	x	
01.03	Others: non denatured ethyl alcohol	ok	ok		x	x	
02	Cereals, cereals derivatives, biscuits, bread and pastries						
02.01	Starch and potato starch	ok	ok				
02.02	Raw cereals (including popcorn and corn flakes)	ok	ok				
02.03	Flour, bran and seed corn	ok	ok				
02.04	Pasta	ok	ok				
02.05	Dry biscuits, bread and pastries						
	A. Fat on the surface	ok	ok				x/5
	B. Others	ok	ok				
02.06	Fresh pastry goods and cakes						
	A. Fat on the surface	ok	ok				x/5
	B. Other	ok	ok	x			
03	chocolate, sugar and derivatives, sweets						
03.01	Chocolate, chocolate coated products, substitutes and substitute coated products	ok	ok				x/5
03.02	Sweets						
	A. Solid form						
	I. Fat on the surface	ok	ok				x/5
	II. Others	ok	ok				
	B. In pastry form						
	I. Fat on the surface	ok	ok			x/3	
	II. Moist	ok	ok	x			



				Simulants			
Reference number	Food products	Soyz	Opal 2K	A	B	C	D
03.03	Sugar and sugar products						
	A. Solid form	ok	ok				
	B. Honey and similar	ok	ok	x			
	C. Molasses and sugar syrups	ok	ok	x			

04	Fruit, veggies and derivatives						
04.01	Whole fruit, fresh or refrigerated	ok	ok				
04.02	Processed fruit						
	A. Dried fruit, dehydrated fruit; whole or powdered and flour form	ok	ok				
	B. Fruit in pieces or mashed	ok	ok	x	x		
	C. Canned fruit	ok	ok				
	I. In aqueous medium	ok	ok	x	x		
	II. In oily medium	no	no	x	x		x
	III. In alcoholic medium (>5% vol)	ok	ok		x	x	



04.03	Nuts						
	A. Shelled, dry	ok	ok				
	B. Shelled and toasted	ok	ok				x/5
	C. In form of paste or creamy	ok	ok	x			x/3
04.04	Whole vegetables, fresh or refrigerated	ok	ok				
04.05	Processed vegetables						
	A. Dried, dehydrated; whole, powder and flour form	ok	ok				
	B. In pieces or mashed	ok	ok	x	x		
	C. Preserved vegetables						
	I. In aqueous medium	ok	ok	x	x		
	II. In oily medium	no	no	x	x		x
	III. In alcoholic medium (>5% vol)	ok	ok		x	x	

				Simulants			
Reference number	Food products	Soyz	Opal 2K	A	B	C	D
05	Fat and oil						
05.01	Animal and vegetable oil and fat, natural or processed (including cocoa butter, melted butter and lard)	no	no				x
05.02	Margarine, butter and other fats made by water emulsions in oil	no	ok				x/2

06	Animal products and eggs						
06.01	Fish						
	A. Fresh, refrigerated, under salt or smoked	ok	ok	x			x/3
	B. Paste	ok	ok	x			x/3
06.02	Shellfish (including oysters, mussels and snails) without shell	ok	ok	x			
06.03	Meat						
	A. Fresh, refrigerated, under salt, smoked	ok	ok	x			x/4
	B. Paste	ok	ok	x			x/4
06.04	Processed meat products (prosciutto, salami, pancetta, other)	ok	ok	x			x/4
06.05	Preserved meat or fish						
	A. In aqueous medium	ok	ok	x	x		
	B. In oily medium	no	no	x	x		x
06.06	Eggs without shells						
	A. Powder or dry	ok	ok				
	B. Other	ok	ok				
06.07	Egg yolk						
	A. Liquid	ok	ok	x			
	B. Powder or frozen	ok	ok				
06.08	Dried egg white	ok	ok				





Reference number	Food products	Soyz	Opal 2K	Simulants			
				A	B	C	D
07	Dairy products						
07.01	Milk						
	A. Full	ok	ok	x			
	B. Partly dehydrated milk	ok	ok	x			
	C. Skimmed or semi skimmed milk	ok	ok	x			
	D. Dehydrated milk	ok	ok	x			
07.02	Fermented milk like yogurt, with fruit and served products	ok	ok		x		
07.03	Cream and sour cream	ok	ok	x	x		
07.04	Cheese						
	A. Whole or with crust	ok	ok				
	B. Melted	ok	ok	x	x		
	C. Others	ok	ok	x	x		x/3
07.05	Rennet						
	A. Liquid or paste	ok	ok	x	x		
	B Powder or dry	ok	ok				
08	Other products						
08.01	Vinegar	ok	ok		x		
08.02	Fried or roasted products						
	A. Fries and similars	ok	ok			x/5	
	B. Animal origins	ok	ok			x/4	
08.03	Soups or broth and ready meals						
	A. Powder or dry						
	I. With fat on surface	ok	ok			x/5	
	II. Others	ok	ok				
	B. Liquid or paste						
	I. With fat on surface	ok	ok	x	x		x/3
	II. Others	ok	ok	x	x		
08.04	Yeast and fermenting substances						
	A. In pasta	ok	ok	x	x		
	B. Dry	ok	ok				

Reference number	Food products	Soyz	Opal 2K	Simulants			
				A	B	C	D
08.05	Salt						
08.06	Sauces						
	A. Without fat on surface	ok	ok	x	x		
	B. Mayonnaise and derivates, salad cream and emulsified sauces	ok	ok	x	x		x/3
	C. Sauces with oil and water on two layers	ok	ok	x	x		x/3
08.07	Mustard (with the exception of the powdered ones - see 08.17)	ok	ok	x	x		x/3
08.08	Tarts, Sandwiches, toasts and similar						
	A. With fat on surface	ok	ok				x/5
	B. Others	ok	ok				
08.09	Ice cream	ok	ok	x			
08.10	Dried products						
	A. With fat on surface	ok	ok				x/5
	B. Others	ok	ok				
08.11	Frozen products	ok	ok				
08.12	Hydroalcoholica concentrated exctrats = or >5% vol	ok	ok		x	x	
08.13	Cocoa						
	A. Powdered cocoa	ok	ok				x/5
	B. Paste cocoa	ok	ok				x/3
08.14	Coffee powdered or in grain	ok	ok				
08.15	Liquid coffee extract	ok	ok	x			
08.16	Aromatic plants	ok	ok				
08.17	Spices and natural flavours	ok	ok				



TEST REPORT

197800 / 1

Date received: 15/06/15
Date of test: 24/06/15
Date of issue: 30/06/15

Sample name: ACQUAPUR OPAL 2K g30 CLEAR

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

Materials in contact with foodstuffs. Overall migration UNI EN 1186:2003

Test Method	UNI EN 1186-5
Specimen surface	dm2 1,00
Food simulant	distilled water
Test conditions	2 hours at 40°C

Test results

Nr.	Overall migration
1	mg/dm2 0,5
2	mg/dm2 0,4
3	mg/dm2 0,5
Mean	mg/dm2 0,5

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Managing Director
Dr. Andrea Giavon

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TEST REPORT

197800 / 2

Date received: 15/06/15
Date of test: 25/06/15
Date of issue: 30/06/15

Sample name: ACQUAPUR OPAL 2K g30 CLEAR

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

Materials in contact with foodstuffs. Overall migration UNI EN 1186:2003

Test Method	UNI EN 1186-5
Specimen surface	dm ² 1,00
Food simulant	Ethanol 10% (V/V)
Test conditions	2 hours at 40°C

Test results

Nr.	Overall migration
1	mg/dm ² 0,7
2	mg/dm ² 0,6
3	mg/dm ² 0,9
Mean	mg/dm ² 0,7

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TEST REPORT

197800 / 3

Date received: 15/06/15
Date of test: 26/06/15
Date of issue: 30/06/15

Sample name: ACQUAPUR OPAL 2K g30 CLEAR

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

Materials in contact with foodstuffs. Overall migration UNI EN 1186:2003

Test Method	UNI EN 1186-5
Specimen surface	dm2 1,00
Food simulant	Acetic acid 3% (m/V)
Test conditions	2 hours at 40°C

Test results

Nr.	Overall migration
1	mg/dm2 0,7
2	mg/dm2 0,9
3	mg/dm2 0,5
Mean	mg/dm2 0,7

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Managing Director
Dr. Andrea Glavon

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TEST REPORT

197800 / 4

Date received: 15/06/15
Date of test: 29/06/15
Date of issue: 02/07/15

Sample name: ACQUAPUR OPAL 2K g30 CLEAR

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

Materials in contact with foodstuffs. Overall migration UNI EN 1186:2003

Test method	UNI EN 1186
Specimen surface	dm2 1,00
Test conditions	isooctane: 2 hours at 40°C ethanol 95%: 2 hours at 40°C

Risultati della prova

N °	Overall migration		
		Isooctane	Ethanol al 95%
1	mg/dm2	0,5	15,2
2	mg/dm2	0,3	12,3
3	mg/dm2	0,3	16,9
Mean	mg/dm2	0,4	14,8

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Managing Director
Dr. Andrea Giavon

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TEST REPORT

197800 / 5

Date received: 15/06/15
Date of test: 07/07/15
Date of issue: 10/07/15

Sample name: ACQUAPUR OPAL 2K g30 CLEAR

VERNITES S.R.L.
VIA DEL LAVORO 12/14
21015 LONATE POZZOLO (VA)
ITALIA

Materials in contact with foodstuffs. Overall migration UNI EN 1186:2003

Test method	UNI EN 1186
Specimen surface	dm2 1,00
Test conditions	isooctane: 2 hours at 70°C ethanol 95%: 2 hours at 70°C

Risultati della prova

N °	Overall migration		
		Isooctane	Ethanol al 95%
1	mg/dm2	4,0	18,0
2	mg/dm2	4,4	20,5
3	mg/dm2	3,5	21,3
Mean	mg/dm2	4,0	19,9

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Managing Director
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Vernites srl
Via del Lavoro, 12/14
21015 Lonate Pozzolo (VA) Italy
Tel. +39 0331.300050 Fax. +39 0331.669891

www.vernites.it

