

**TEST REPORT**

**REPORT NO: AR23-010200-1**

**REPORT DATE: 23.03.2023**

**SUITABILITY OF NON-METALLIC PRODUCTS FOR USE IN CONTACT WITH WATER  
INTENDED FOR HUMAN CONSUMPTION WITH REGARD TO THEIR EFFECT ON THE  
QUALITY OF WATER**

**CLIENT: WEICON MIDDLE EAST L.L.C.**

**DUBAI, UAE**

**SAMPLE: WEICON CERAMIC BL**

**SAMPLE NUMBER: AS23-010200**

**TEST DATE: 03.02.2023 ~ 22.03.2023**

**Report approved by**

**Reji Krishnan G**

**Head of Chemistry Department**

**Al Hoty Stanger Laboratories - Abu Dhabi**

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**SAMPLE DETAILS**

Description of sample	: Stainless steel plates 100x100x2mm made of V4A, coated both sides with 2-component epoxy.
General composition of product	: 2-component epoxy
Trade name and reference of material	: WEICON ceramic BL
Material manufacturer	: WEICON GmbH & Co. KG
Submitting organization	: WEICON Middle East LLC.
Component name/ref	: Not Available
Component manufacturer	: Not Available
Batch number of product	: Not Available
Date of manufacture of product	: Not Available
Method of manufacture of sample	: The stainless steel plates were sandblasted with corundum F60, cleaned and then coated with 2-component epoxy and a brush.
Sampling procedure	: Not Available
Surface area of test piece	: 20.000mm <sup>2</sup>
Date of application	: 25.11.2023
Date of receipt of test samples	: 31.01.2023
Condition of samples on receipt	: Satisfactory
Method of packaging	: Wrapped in aluminium foil
Conditions of storage of the samples between receipts	: As per BS 6920 B
Proposed use of the product	: Coatings in direct contact with drinking water

**SITE APPLIED PRODUCTS**

The samples were prepared in accordance with manufacturer's instructions to the user.

Samples prepared by	: Not Available
Mode of preparation and application of the products	: Not Available
Application conditions	: Not Available
Curing conditions	: Not Available

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**ODOUR AND FLAVOUR OF WATER**

Number of tasters in the taste panel : 3  
Extraction temperature : 25°C  
Date test commenced : 02.02.2023 ~ 03.02.2023

**Extract 1**

(i) **Chlorine Free Test Water:**

Taster	Odour	Flavour	Specification Limit
1	No Discernable	No Discernable	No Discernable
2	No Discernable	No Discernable	
3	No Discernable	No Discernable	

(ii) **Chlorinated Test Water:**

Taster	Odour	Flavour	Specification Limit
1	No Discernable	No Discernable	No Discernable
2	No Discernable	No Discernable	
3	No Discernable	No Discernable	

**Comment** - thus the samples of this product have been found to comply with the requirements of BS 6920: Part 1: clause 4 when extracted at 25°C.

**APPEARANCE OF WATER**

Extraction temperature : 25°C  
Date test commenced : 02.02.2023 ~ 03.02.2023

**Extract**

	Colour (Hazen units)			Turbidity (Formazine nephelometric units)		
	Result	*MU <sup>a</sup>	Specification Limit	Result	*MU <sup>a</sup>	Specification Limit
Test container (products)	1	± 7.02 %	--	0.17	± 1.91%	--
Blank	0	± 7.02 %	--	0.13	± 1.91%	--
Net Increase	1	± 7.02 %	< 5	0.04	± 1.91%	< 0.5

**Comment** - thus the samples of these products have been found to comply with the requirements of BS 6920: Part 1: clause 5 when extracted at 25°C.



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## GROWTH OF AQUATIC MICROORGANISMS

Date tests commenced : 02.02.2023 ~ 22.03.2023

Mean Dissolved Oxygen Difference (MDOD)	*MU <sup>a</sup>	Specification Limit
Test container (Products)	1.97 mg/l ± 5.08%	< 2.4
Negative reference (Glass) sample	0.23 mg/l ± 5.08%	0 ± 0.6
Positive reference (Wax) sample	7.31 mg/l ± 5.08%	7.5 ± 2.5
Mean dissolved oxygen concentration of the negative control	7.81 mg/l ± 5.08%	8.5 ± 2.5

**Note** - At the end of this test the test pieces showed no changes in colour and appearance.

**Comments** - thus the samples of these products have been found to comply with the requirements of BS 6920: Part 1: clause 6.

## THE EXTRACTION OF METALS

Extraction temperature : 25°C  
Date test commenced : 06.02.2023  
Number of extracts : 1

### PRODUCT

#### a) Extract 1

Metal	Expression of the results	Max. admissible concentration	Concentration Final Extract I	Reagent Blank	*MU <sup>a</sup>
Aluminium	Al µg/L	200	< 20.0	< 20.0	± 8.31%
Antimony	Sb µg/L	5	< 1.0	< 0.5	± 3.86%
Arsenic	As µg/L	10	< 1.0	< 1.0	± 3.69%
Boron	B µg/L	1000	< 100.0	< 100.0	± 9.91%
Cadmium	Cd µg/L	5	< 1.0	< 0.5	± 6.17%
Chromium	Cr µg/L	50	< 5.0	< 5.0	± 6.24%
Iron	Fe µg/L	200	< 20.0	< 20.0	± 9.60%
Lead	Pb µg/L	25	< 1.0	< 1.0	± 6.96%
Manganese	Mn µg/L	50	< 5.0	< 5.0	± 7.73%
Mercury	Hg µg/L	1	< 1.0	< 0.1	± 3.71%
Nickel	Ni µg/L	20	< 2.0	< 2.0	± 7.33%
Selenium	Se µg/L	10	< 1.0	< 1.0	± 3.73%

**Comment** - thus the samples of these products have been found to comply with the requirements of BS 6920: Part 1: clause 8 when extracted at 25°C.

\*MU-Measurement Uncertainty





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## SUMMARY OF ANALYSIS

Test	Result
Odour and flavor of water	Pass
Appearance of water	Pass
Growth of aquatic microorganisms	Pass
Extraction Of metals	Pass

## CONCLUSION

The samples of the products referred to in this report have been tested in accordance with the methods specified in BS 6920: Part 2: 2000 "Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water: "Methods of test" and the requirements of the Water Regulations Advisory Scheme.

Based on the above test, the sample is compliance with the requirement of BS 6920 Part 1:2000, the expanded measurement uncertainty of the results (Based on 95% coverage probability) was considered into account during the decision of compliance as QSP 21.

"AHSL Abu Dhabi (Musaffah, ICAD – 1, Plot 9R7B) is accredited by ELAC for the above tested parameters"

  
Reji Krishnan G  
Head of Chemistry Department  
For Al Hoty Stanger Laboratories

