

(Certified English Translation)

LADR



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WEBAC-Chemie GmbH
Fahrenberg 22

22885 Barsbüttel near Hamburg

Geesthacht, 30 August 2019

Test Certificate
according to KTW recommendations
(Federal Health Gazette 20, 1977ff)

(This test was implemented in accordance with the requirements of the KTW recommendation of 1977, status October 2008.)
Note: The present status of the KTW recommendation of the Umweltbundesamt (UBA)³ is March 2016.

Applicant: WEBAC-Chemie GmbH
Fahrenberg 22
22885 Barsbüttel
Germany

Product: **WEBAC®1405**
PU injection resin

Test type: Product Testing

According to the test report of 30 August 2019, **laboratory number 115916/00/01**, the test samples of **WEBAC®1405** provided fulfill the requirements for use in potable water applications according to the KTW recommendations of the Bundesgesundheitsamt⁴, status October 2008, for the following

Application Range(s):

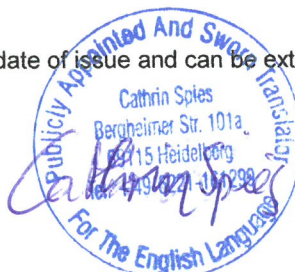
Temperature Range(s):

	Cold water	Warm water	Hot water
A Pipes	---	---	---
B Containers	---	---	---
C Equipment gear	---	---	---
D1 Large-surface sealants	fulfilled	---	---
D2 Other sealants and adhesives	---	---	---

if the material is suitable for these in technical terms.

Deputy Head of Department:
(signature)
(Dr. D. Reinhardt)

The validity of this report is 5 years from the date of issue and can be extended once for a further 5 years after expiry.



¹ Central Laboratory
² Dept. of Water and Environmental Analysis
³ German Federal Environment Agency
⁴ German Federal Health Department

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WEBAC-Chemie GmbH
Fahrenberg 22
22885 Barsbüttel near Hamburg

Geesthacht, 30 August 2019

Test Report

(This test was implemented in accordance with the requirements of the KTW recommendation of 1977, status October 2008.)
Note: The present status of the KTW recommendation of the Umweltbundesamt (UBA)⁷ is March 2016.

Laboratory No.:	115916/00/01	KTW classification:	D1 "Large-surface sealants"
Manufacturer:	WEBAC Chemie	OV ⁸ ratio:	1:25 cm ² /cm ³
Type of product:	PU injection resin	Test sample surface:	52.0 cm ²
Name of sample:	Webac [®] 1405	Test water volume:	1300 ml

Test results:

Parameter	Day 1-3	Day 4-6	Day 7-9	KTW requirement after 9 days
pH	8.28	8.29	8.29	6.5-9.5
Color (436 nm) 1/m	0.25	0.18	<0.10	DIN 38404 C5 n.n.b. (≤0.5 for 436 nm)
Turbidity TE/F	0.19	0.16	0.10	DIN EN ISO 7887 n.n.b. (≤1.5)
Tendency to foam formation	n.n.b.	n.n.b.	n.n.b.	DIN EN ISO 7027 n.n.b.
Threshold odor number (20°C)	1	1	1	≤2
TOC (mg C/m ² *day)	101.4	79.1	7.4	≤60 DIN EN 1484
Oxidation reaction with chlorine (mg Cl ₂ /m ² *day)	15.0	14.7	14.3	≤75 DIN EN ISO 7393-2

n.n.b. = no detectable influence

Assessment:

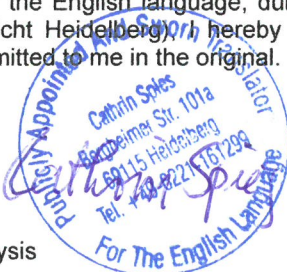
The test samples of **WEBAC[®]1405** you provided fulfill the requirements for use in potable water applications according to the KTW recommendations of the Bundesgesundheitsamt⁹, status October 2008, for application range D1 "Large-surface sealants" (OV ratio 1:25 cm²/cm³).

Deputy Head of Department:

(signature)
(Dr. D. Reinhardt)

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In my capacity as a public translator for the English language, duly commissioned and sworn by the President of the Regional Court of Heidelberg (Landgericht Heidelberg), I hereby confirm that the foregoing is a true and complete translation of the German document submitted to me in the original.
Heidelberg, Germany
6 September 2019



⁵ Central Laboratory

⁶ Dept. of Water and Environmental Analysis

⁷ German Federal Environment Agency

⁸ surface/volume

⁹ German Federal Health Department