

GROUTTECH
Industrieweg 51
NL-8071 CS Nunspeet
Nederland

Geesthacht, 28. November 2017

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

(This test was implemented in accordance with the requirements of the KTW-recommendation of October 2008.)
Note: The actual state of the KTW recommendations given by the German Federal Environmental Agency (UBA) was published in March 2016.

Applicant: GROUTTECH
Industrieweg 51
NL-8071 CS Nunspeet
Nederland

Product: Grouttech®240 Bseal
polymer reinforced acrylate gel

Test type: product testing

According to the test report dated November 28, 2017 the test boards **Lab.-No. 102509/00/01 Grouttech®240 Bseal** fulfill the requirements for use in the drinking water sector of the KTW-recommendations for the following

Application area(s)	Temperature range(s)		
	cold water	warm water	hot water
A Pipes	--	--	--
B Containers	--	--	--
C Equipment gear	--	--	--
D1 Large-surface sealants	fulfilled	--	--
D2 Small-surface sealants	--	--	--

if the material is suitable for these in technical terms.

Head of Department:

(Dr. S. Dageförde)

The validity of this report is 5 years from the date of issue and can be extended once for another 5 years.

GROUTTECH
 Industrieweg 51
 NL-8071 CS Nunspeet
 Nederland

Geesthacht, 28. November 2017

Test report

(This test was implemented in accordance with the requirements of the KTW recommendation from 1977 dated October 2008.)
 Note: The actual state of the KTW recommendations given by the German Federal Environmental Agency (UBA) was published in March 2016.

Laboratory-No.:	102509/00/01	KTW-classification:	D1 "Large-surface sealants "
Manufacturer:	Grouttech	Proportion of surface and volume:	1:25 cm ² /cm ³
Type of sample:	polymer reinforced acrylate gel	Test sample surface:	97,0 cm ²
Sample name:	Grouttech®240 Bseal	Test water volume:	2420 mL

Test results:

Parameter	after 3 days	after 6 days	after 9 days	KTW-requirements after 9 days
pH	8.32	8.48	8.46	6.5–9.5 DIN 38404 C5
absorption coefficient „colour“ (436nm)1/m	< 0.10	< 0.10	< 0.10	n.c.i. (≤0.5) DIN EN ISO 7887
Turbidity TE/F	0.17	0.14	0.12	n.c.i. (≤1.5) DIN EN ISO 7027
Tendency of foam formation	n.c.i.	n.c.i.	n.c.i.	n.c.i.
Threshold odour number (20°C)	1	1	1	≤2
TOC (mg C/m²*day)	149.7	62.4	49.9	≤60 DIN EN 1484
Oxidation reaction with chlorine (mg Cl₂/m²*day)	2.9	3.2	3.2	≤75 DIN EN ISO 7393-2

n.c.i. = not considerably influenced

Assessment:

The provided test samples of **Grouttech®240 Bseal** fulfill the requirements for use in the drinking water sector according to the KTW recommendations of the German Federal Health Department dated Oktober 2008 for the application range D1 " Large-surface sealants" (surface/volume = 1:25 cm²/cm³).

Head of Department:
 (Dr. S. Dageförde)



The validity of this report is 5 years from the date of issue and can be extended once for another 5 years.