

Laboratory report

Client: Kiilto Oy

Description of work: Test of the EPI glue Kestokol WR 05 with hardener WR according to JIS K 6806 item 4.4 Appearance, item 4.11.1 Compressive shear strength and item 4.12 Bond strength retention time

Report no.: 325011-LM01



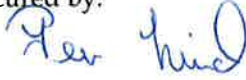


Report issued: 2011-02-21

P.O. Box 113 Blindern, NO-0314 Oslo

Phone: +47 22 96 55 00

Laboratory report

No.: 325011-LM01

Test items received: 2011-02-11	Date of testing: 2011-02-18	Date of issue: 2011-02-21
Testing done by:  Stian Engebretsen	Reported by:  Stian Engebretsen	Quality secured by:  Per Lind
Project manager:  Stian Engebretsen	Responsible:  Erik Aasheim	

Customer: Kiilto Oy

Project title: Kiilto EPI Kestokol WR05

Project no.: 325011

Test method: JIS K 6806 Class 1 Grade 1
Item. 4.4 Appearance
Item. 4.11.1 Compressive-Shear Strength
Item 4.12 Bond strength retention time

Deviations from method: No deviations

Appendix no.: 325011-LM01-1 Compressive shear strength
325011-LM01-2 Bond strength retention time

Summary

The EPI-adhesive Kestokol WR 05 with hardener WR was tested according to the English version of JIS K 6806-1985, the 1995 revision.

Item. 4.4. The adhesive does not contain foreign matter considered to be harmful to bonding. The hardener is homogeneously liquid.

The adhesive meets the requirements regarding compressive shear strength in JIS K 6806-1985 item 4.11.1 Compressive shear strength and item 4.12 Bond strength retention time. Retention time is 20 min.

Extent of testing

The EPI-glue Kestokol WR 05 with hardener WR was tested according to the English version of JIS K 6806-1985, the 1995 revision.
100 parts of the adhesive were mixed with 15 parts of the hardener.

Sampling

The adhesive and hardener were sent to Treteknisk by Kiilto OY.

Identification of samples

The adhesive container was labelled "Kestokol WR 05, 2.2.2011 100830".
The hardener container was labelled "WR, 21.1.2011 100426".

Pre-treatment of samples

The adhesive and hardener containers were shaken before mixing.

Results

Item. 4.4. The adhesive does not contain foreign matter considered to be harmful to bonding. The hardener is homogeneously liquid.

The original state samples gave an average of 1835 N/cm² for compressive shear strength, and the repetitive boiling samples gave an average of 827 N/cm².
A bond strength retention time of 20 minutes gave an average shear strength of 610 N/cm².

More details can be found in appendix.

The adhesive meets the requirements in JIS K 6806-1985 regarding the compressive shear strength and bond strength retention time.

Uncertainty

The equipment used has an accuracy equal to or better than the requirements given in the standard that the internal method of the laboratory is based on.

Information about uncertainty calculation can be given by the laboratory.

Validity

The validity of the results in this report includes only the samples that are tested according to the description under "identification of samples".