

Laboratory report

Client: Kiilto OY

Description of work: Test of the EPI glue Kestokol WR 11 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.: 325025-LM02

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Test items received: 2005-05-31	Date of testing: 2005-06-28	Date of issue: 2007-01-05
Testing done by:  Kjell Lindrupsen	Reported by:  Kjell Lindrupsen	Responsible:  Per Lind

Customer: Kiilto OY
Project title: Kiilto EPI
Project no.: 325025
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 deviation
Appendix no.: 325025-LM02-1

Summary

The EPI-glue Kestokol WR 11 with hardener WR was tested according to the English version of JIS K 6806-1985, the 1995 revision.

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

The glue 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 10 min.

Extent of testing

The EPI-glue Kestokol WR 11 with hardener WR was tested according to the English version of JIS K 6806-1985, the 1995 revision.
100 parts of the glue were mixed with 15 parts of the hardener.

Sampling

The glue was sent to NTI by Kiilto OY.

Identification of samples

The glue container was labelled "Kestokol WR 11 24.5.2005 2504711".
The hardener container was labelled "Kestokol WR hardener".

Pre-treatment of samples

The glue and hardener containers were shaken before mixing of glue and hardener.

Results

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

The original state samples gave an average of 1687 N/cm² for compressive shear strength, and the repetitive boiling samples gave an average of 798 N/cm².
A bond strength retention time of 10 minutes gave an average shear strength of 589 N/cm².

The glue 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".