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**Letter****511-3/2010**

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Your Ref.:  
Your message of:

Date: 11/11/2010

**Order 5009/435/10****Testing of the "Elastocoat C 6335/101" roof waterproofing system with liquid plastics in accordance with ETAG 005**

Dear Sirs,

We have now completed the required type approval tests in the above matter. An overview of the test results is presented in the annexed tables.

The product is made from polyurethane material without interlining fabric. The test programme is based on ETAG 005-1 requirements and the special requirements of ETAG 005-6. In accordance with table 2 of DIBt Mitteilungen (DIBT News) 2/2010, the system might be classified for roof inclinations S1 to S4 under

- Durability: W3
- Climate zone: S
- Load capacity: P1 to P3  
(compressible substrate: e.g. mineral wool)  
P1 to P3  
(non-compressible substrate: e.g. concrete/steel)
- Roof inclination: S1 to S4
- Lowest surface temperature: TL4
- Highest surface temperature: TH4

We are going to prepare an assessment report for the characteristics.

If there is any further information required, please do not hesitate to contact us again.

Sincerely  
i.A.

N. Meyer-Laurien  
Dept. Preservation & Waterproofing of Buildings

Annex 1: Annexed tables

| Verification method in accordance with ETAG 005-1  | Test/<br>Test conditions  | Test results  | Requirements   |
|--|---|---|--|
| <b>5.2.1</b><br>Resistance against spreading fire and radiant heat<br><br><b>5.2.2</b><br>Reaction to fire | DIN V EN V 1187<br><br>DIN EN ISO 11925-2<br>DIN EN 13501-1   | Will be separately tested<br><br>Class E,<br>tested with non-flammable substrate  | Resistant against spreading fire and radiant heat<br><br>Class E                                     |
| <b>5.3.1.1</b><br>Water vapour permeability<br><br><b>5.3.1.2</b><br>Water tightness                       | DIN EN 1931<br>23°C-0/75% r.h.<br>Method: free film<br>Number of specimens: 3<br>Thickness of dry coat: 1,850 µm<br><br>TR-003: DIN EN 1928<br>Method A<br>Test period 24 h<br>Water column 1 m<br>Number of specimens: 3 | Water vapour diffusion current density<br><br>$V = 8.50 \text{ [g/(m}^2 \cdot \text{d)]}$<br><br>Water vapour diffusion equivalent air layer thickness<br><br>$S_d = 4.2 \text{ [m]}$<br><br>Diffusion resistance<br><br>$\mu = 2320 \text{ [-]}$<br>$\mu_k = 2285 \text{ [-]}$<br>$\mu_G = 2350 \text{ [-]}$<br><br>Watertight                 | -<br><br>Watertight  |
| <b>5.3.3.1</b><br>Resistance against wind load   | TR-004:<br>Indenter $\varnothing$ 100 mm<br>Load increase rate 100 N/sec.<br>Number of specimens: 5   | On concrete:<br>$x = 3.10 \text{ N/mm}^2$<br>$g = 3.92 \text{ N/mm}^2$<br>$k = 1.92 \text{ N/mm}^2$<br><br>On bitumen membrane:<br>$x = 0.39 \text{ N/mm}^2$<br>$g = 0.46 \text{ N/mm}^2$<br>$k = 0.34 \text{ N/mm}^2$<br><br>On galvanised steel plate:<br>$x = 0.75 \text{ N/mm}^2$<br>$g = 0.92 \text{ N/mm}^2$<br>$k = 0.68 \text{ N/mm}^2$ | $x \geq 0.05 \text{ N/mm}^2$<br><br>$x \geq 0.05 \text{ N/mm}^2$<br><br>$x \geq 0.05 \text{ N/mm}^2$ |

Legend: x = mean value, k = lowest value g = highest value

Table: Characteristics of the "Elastocoat C 6335/101" waterproofing system

| Verification method in accordance with ETAG 005-1   | Test/<br>Test conditions   | Test results  | Requirements   |
|---|--|---|--|
| <b>5.3.3.1</b><br>Resistance against wind load  | TR-004:<br>Indenter $\varnothing$ 100 mm<br>Load increase rate 100 N/sec.<br>Number of specimens: 5  | On waterproofing PVC membrane:<br>$x = 2.02 \text{ N/mm}^2$<br>$g = 2.25 \text{ N/mm}^2$<br>$k = 1.87 \text{ N/mm}^2$<br><br>On waterproofing EPDM membrane:<br>$x = 0.53 \text{ N/mm}^2$<br>$g = 0.57 \text{ N/mm}^2$<br>$k = 0.45 \text{ N/mm}^2$<br><br>On extruded PS:<br>$x = 0.17 \text{ N/mm}^2$<br>$g = 0.19 \text{ N/mm}^2$<br>$k = 0.13 \text{ N/mm}^2$<br><br>On Promatect H:<br>$x = 0.23 \text{ N/mm}^2$<br>$g = 0.29 \text{ N/mm}^2$<br>$k = 0.17 \text{ N/mm}^2$ | $x \geq 0.05 \text{ N/mm}^2$<br><br><br>$x \geq 0.05 \text{ N/mm}^2$<br><br><br>$x \geq 0.05 \text{ N/mm}^2$<br><br><br>$x \geq 0.05 \text{ N/mm}^2$ |
| <b>5.3.3.2</b><br>Resistance against mechanical damage as a result of dynamic and static indentation<br><br><ul style="list-style-type: none"> <li>Impermeability to water in the loaded state</li> </ul> | <u>Load characteristics</u> <ul style="list-style-type: none"> <li><b>Dynamic indentation acc. to TR-006</b></li> <li>24-hour exposure to a 0.1-metre water column (test method 5.3.1.2)</li> <li>Number of specimens: 3</li> </ul> <u>Load characteristics</u> <ul style="list-style-type: none"> <li><b>Static indentation acc. to TR-007</b></li> <li>24-hour exposure to a 0.1-metre water column (test method 5.3.1.2)</li> <li>Number of specimens: 3</li> </ul> | Substrate: concrete<br>P4: 6-mm indenter: tight<br><br>Substrate: mineral wool DAA <sup>*)</sup> :<br>P4: 6-mm indenter: tight<br><br>Substrate: concrete<br>P4: 250-N imposed load: tight<br><br>Substrate: mineral wool DAA <sup>*)</sup> :<br>P4: 250-N imposed load: tight  | Tight<br><br>Tight<br><br>Tight<br><br>Tight   |
| <b>5.3.3.3</b><br>Fatigue resistance  | TR-008:<br>Test temperature: -10°C<br>Initial crack width: 1.0 mm<br>Change in crack width: $\pm 1 \text{ mm}$<br>No. of cycles: 500 (W2)<br>Test rate: 16 mm/h<br>Number of specimens: 3  | No cracks<br>no incipient cracks  | No cracks<br>no incipient cracks   |

Legend:  $x$  = mean value,  $k$  = lowest value  $g$  = highest value

<sup>\*)</sup> Classification in acc. with DIN 4108-10

Table: Characteristics of the "Elastocoat C 6335/101" waterproofing system

| Verification method in accordance with ETAG 005-1                                     | Test/<br>Test conditions  | Test results  | Requirements  |
|---|---|---|---|
| <b>5.3.3.3</b><br>Fatigue resistance  | TR-008:<br>Test temperature: -10°C<br>Initial crack width: 1.0 mm<br>Change in crack width: $\pm 1$ mm<br>No. of cycles: 1000 (W3)<br>Test rate: 16 mm/h<br>Number of specimens: 3  | No cracks<br>no incipient cracks  | No cracks<br>no incipient cracks                                    |
| <b>5.3.3.4</b><br>Resistance against the effects of high and low surface temperatures | <p><b>Low temperatures:</b></p> <p><u>Load characteristics</u></p> <ul style="list-style-type: none"> <li>• <b>Dynamic indentation</b><br/>acc. to TR-006<br/>Substrate: concrete</li> <li>• 24-hour exposure to a 0.1-metre water column (test method 5.3.1.2)</li> <li>• Number of specimens: 3</li> </ul> <p><b>Extremely low temperatures:</b></p> <p>TR-013:<br/>Test temperature: -30°C<br/>Crack width: 1.5 mm<br/>Test rate: 0.5 mm/min<br/>Specimens: 3</p> <p><b>High temperatures:</b></p> <p><u>Load characteristics</u></p> <ul style="list-style-type: none"> <li>• <b>Static indentation</b><br/>acc. to TR-007<br/>Substrate: concrete</li> <li>• 24-hour exposure to a 0.1-metre water column (test method 5.3.1.2)</li> </ul> | <p>Test temperature:<br/>-30°C (TL 4)<br/>P4: 6-mm indenter: tight</p> <p>Tight</p> <p>Test temperature:<br/>+90°C (TH 4)<br/>P4: 250-N imposed load: tight</p> | <p>Tight</p> <p>According to ETAG 005, no test required for PUR</p> |

Legend: x = mean value, k = lowest value g = highest value

Table: Characteristics of the "Elastocoat C 6335/101" waterproofing system

| Verification method in accordance with ETAG 005-1   | Test/<br>Test conditions   | Test results  | Requirements   |
|---|--|---|--|
| Resistance against the effects of aging<br><br><b>5.3.3.5-1</b><br>Resistance against thermal aging | TR-011: 80°C/ 100 d<br><br><b>Low temperature test:</b><br><u>Load characteristics</u><br>* Dynamic <b>indentation</b> acc. to TR-006<br>Substrate: concrete<br>* 24-hour exposure to a 0.1-metre water column (test method 5.3.1.2)<br>* Number of specimens: 3<br><br><b>Fatigue resistance in accordance with 5.3.3.3</b><br><br>TR-008:<br>Test temperature: -10°C<br>Initial crack width: 1.0 mm<br>Change in crack width: $\pm 1$ mm<br>No. of cycles: 50<br>Test rate: 16 mm/h<br>Number of specimens: 3<br><br><b>Tension tests in accordance with DIN EN ISO527</b><br><br>* Test rate: 200 mm/min<br>* Specimen 1B<br>* Number of specimens: 5 | Test temperature: -30°C (TL 4)<br>P4: 6-mm indenter: tight<br><br><br><br>No cracks<br>No incipient cracks<br><br><br><br><u>Tensile strength</u><br>x = 27.7 MPa<br>k = 26.1 MPa    g = 28.8 MPa<br><br><u>Strain at max. tensile force</u><br>x = 469 %<br>k = 463 %        g = 477 %<br><br>→ No significant changes | Tight<br><br><br><br><br><br><br><br>No cracks<br>No incipient cracks<br><br><br><br><br><br><br>No significant changes in comparison with the condition when supplied |

Legend: x = mean value, k = lowest value g = highest value

Table: Characteristics of the "Elastocoat C 6335/101" waterproofing system



| Verification method in accordance with ETAG 005-1           | Test/<br>Test conditions  | Requirements  | Requirements   |
|---|---|---|--|
| <b>5.3.3.5-2</b><br>UV exposure in the presence of moisture | TR-010: 400 MJ/m <sup>2</sup><br>Black standard temp. 60°C<br><br><b>Low temperature test (-10 °C):</b><br><u>Load characteristics</u><br>* <b>Dynamic indentation</b> acc. to TR-006<br>Substrate: concrete<br>* 24-hour exposure to a 0.1-metre water column (test method 5.3.1.2)<br>* Number of specimens: 3<br><br><b>Tension tests in accordance with DIN EN ISO 527</b><br><br>* Test rate: 200 mm/min<br>* Specimen 1B<br>* Number of specimens: 5  | Test temperature: -10°C<br>P4: 6-mm indenter: not tight<br>P3: 10-mm indenter: tight<br><br><u>Tensile strength</u><br>x = 12.3 MPa<br>k = 11.4 MPa    g = 13.4 MPa<br><br><u>Strain at max. tensile force</u><br>x = 415 %<br>k = 399 %        g = 438 % | Tight<br><br><br><br><br><br><br><br><br><br><br>No significant changes in comparison with the condition when supplied |
| <b>5.3.3.5-2</b><br>UV exposure in the presence of moisture | TR-010: 1000 MJ/m <sup>2</sup><br>Black standard temp. 60°C<br><br><b>Low temperature test (-10 °C):</b><br><u>Load characteristics</u><br>* <b>Dynamic indentation</b> acc. to TR-006<br>Substrate: concrete<br>* 24-hour exposure to a 0.1-metre water column (test method 5.3.1.2)<br>* Number of specimens: 3<br><br><b>Tension tests in accordance with DIN EN ISO 527</b><br><br>* Test rate: 200 mm/min<br>* Specimen 1B<br>* Number of specimens: 5 | Test temperature: -10°C<br>P4: 6-mm indenter: not tight<br>P3: 10-mm indenter: tight<br><br><u>Tensile strength</u><br>x = 11.1 MPa<br>k = 9.07 MPa    g = 11.9 MPa<br><br><u>Strain at max. tensile force</u><br>x = 345 %<br>k = 317 %        g = 379 % | Tight<br><br><br><br><br><br><br><br><br><br><br>No significant changes in comparison with the condition when supplied |

Legend: x = mean value, k = lowest value g = highest value

Table: Characteristics of the "Elastocoat C 6335/101" waterproofing system

| Verification method in accordance with ETAG 005-1  | Test/<br>Test conditions  | Requirements  | Requirements   |
|--|---|---|--|
| Resistance against the effects of aging<br><br><b>5.3.3.5-3</b><br>Resistance against aging in water | TR-012: 60°C/ 90 d<br><br><b>High temperature test</b><br><u>Load characteristics</u><br>* <b>Static indentation</b> acc. to TR-007<br>Substrate: concrete<br>* 24-hour exposure to a 0.1-metre water column (test method 5.3.1.2)<br>* Number of specimens: 3<br><br><b>Resistance against wind load</b><br><br>TR-004:<br>Indenter $\varnothing$ 100 mm<br>Load increase rate 100 N/sec.<br>Number of specimens: 5  | Test temperature: +90°C (TH 4)<br>P4: 250-N imposed load: tight<br><br><br><br>On concrete:<br>x = 2.16 N/mm <sup>2</sup><br>g = 1.77 N/mm <sup>2</sup><br>k = 2.40 N/mm <sup>2</sup> | Tight<br><br><br><br><br><br><br><br><br><br>x $\geq$ 0.05 N/mm <sup>2</sup> |
| Resistance against the effects of aging<br><br><b>5.3.3.5-3</b><br>Resistance against aging in water | TR-012: 60°C/ 180 d<br><br><b>High temperature test</b><br><u>Load characteristics</u><br>* <b>Static indentation</b> acc. to TR-007<br>Substrate: concrete<br>* 24-hour exposure to a 0.1-metre water column (test method 5.3.1.2)<br>* Number of specimens: 3<br><br><b>Resistance against wind load</b><br><br>TR-004:<br>Indenter $\varnothing$ 100 mm<br>Load increase rate 100 N/sec.<br>Number of specimens: 5 | Test temperature: +90°C (TH 4)<br>P4: 250-N imposed load: tight<br><br><br><br>On concrete:<br>x = 3.45 N/mm <sup>2</sup><br>g = 4.61 N/mm <sup>2</sup><br>k = 2.58 N/mm <sup>2</sup> | Tight<br><br><br><br><br><br><br><br><br><br>x $\geq$ 0.05 N/mm <sup>2</sup> |

Legend: x = mean value, k = lowest value g = highest value

Table: Characteristics of the "Elastocoat C 6335/101" waterproofing system



| Verification method in accordance with ETAG 005-1          | Test/<br>Test conditions   | Requirements  | Requirements  |
|--|--|---|---|
| <b>5.7.1</b><br>Effects of deviations<br>(fitness for use) | <u>Load characteristics</u><br>* <b>Dynamic indentation acc. to TR-006</b><br>* 24-hour exposure to a 0.1-metre water column (test method 5.3.1.2)<br>* Number of specimens: 3 | <u>Film produced at +5 °C</u><br><br>Substrate: concrete<br>P4: 6-mm indenter: tight<br><br><u>Film produced at +65 °C</u><br><br>Substrate: concrete<br>P4: 6-mm indenter: tight   | Tight<br><br><br>Tight  |
|  | <b>Tension tests in accordance with DIN EN ISO 527</b><br><br>* Test rate: 200 mm/min<br>* Specimen 1B<br>* Number of specimens: 5   | <u>Film produced at +5 °C</u><br><br>Tensile strength<br><br>x = 23.4 MPa<br>k = 21.8 MPa    g = 25.7 MPa<br><br>Strain at max. force [%]<br><br>x = 419 %<br>k = 402 %        g = 437 %<br><br><u>Film produced at +65 °C</u><br><br>Tensile strength<br><br>x = 24.5 MPa<br>k = 23.7 MPa    g = 25.4 MPa<br><br>Strain at max. force [%]<br><br>x = 437 %<br>k = 431 %        g = 444 %<br><br>→ No significant changes | No significant changes in comparison with the condition when supplied (see annex 5) |
|  | <b>Resistance against wind load</b><br><br>TR-004:<br>Indenter $\varnothing$ 100 mm<br>Load increase rate 100 N/sec.<br>Number of specimens: 5                                 | On concrete:<br>x = 2.33 N/mm <sup>2</sup><br>k = 2.10 N/mm <sup>2</sup><br>g = 2.68 N/mm <sup>2</sup>  | x $\geq$ 0.02 N/mm <sup>2</sup>   |

Legend:    x = mean value,    k = lowest value    g = highest value

Table: Characteristics of the "Elastocoat C 6335/101" waterproofing system

| Properties of the waterproofing system | Test/<br>Test conditions  | Test results  |
|--|---|---|
| <b>Thickn.</b>                         | DIN EN 1849-2   | <p>Sample condition when supplied:<br/> <math>x = 1.85 \text{ mm}</math><br/> <math>k = 1.63 \text{ mm}</math>      <math>g = 1.90 \text{ mm}</math></p> <p>Samples for static and dynamic indentation (free films):<br/> <math>x = 1.88 \text{ mm}</math><br/> <math>k = 1.72 \text{ mm}</math>      <math>g = 1.95 \text{ mm}</math></p> <p>Samples for fatigue resistance tests:<br/> <math>x = 2.45 \text{ mm}</math><br/> <math>k = 2.10 \text{ mm}</math>      <math>g = 2.75 \text{ mm}</math></p> <p>Samples for thermal aging tests:<br/> <math>x = 1.92 \text{ mm}</math><br/> <math>k = 1.87 \text{ mm}</math>      <math>g = 1.97 \text{ mm}</math></p> <p>Samples for UV aging tests:<br/> <math>x = 1.85 \text{ mm}</math><br/> <math>k = 1.81 \text{ mm}</math>      <math>g = 1.88 \text{ mm}</math></p> <p>Samples produced at +5 °C:<br/> <math>x = 1.88 \text{ mm}</math><br/> <math>k = 1.78 \text{ mm}</math>      <math>g = 2.01 \text{ mm}</math></p> <p>Samples produced at +65 °C:<br/> <math>x = 2.17 \text{ mm}</math><br/> <math>k = 2.09 \text{ mm}</math>      <math>g = 2.24 \text{ mm}</math></p> <p>Samples for determination of the effects of construction joints:<br/> <math>x = 2.95 \text{ mm}</math><br/> <math>k = 2.81 \text{ mm}</math>      <math>g = 3.09 \text{ mm}</math></p> |
| <b>Weight per unit area</b>            | EN 29073-1  | $x = 1,865 \text{ g/m}^2$<br>$k = 1,780 \text{ g/m}^2$ $g = 1,985 \text{ g/m}^2$  |
| <b>Reaction in the tension test</b>    | DIN EN ISO 527<br>Specimen 1b<br>Number of specimens: 5<br>$v = 200 \text{ mm/min}$<br>$l_0 = 115 \text{ mm}$ | <p>Max. force<br/> <math>x = 466 \text{ N/10 mm}</math>      <math>s = 48.0</math></p> <p>Tensile strength<br/> <math>x = 25.2 \text{ MPa}</math>      <math>s = 2.59</math><br/> <math>k = 20.9 \text{ MPa}</math>      <math>g = 27.1 \text{ MPa}</math></p> <p>Strain at max. force [%]<br/> <math>x = 433 \%</math>      <math>s = 24.6</math><br/> <math>k = 394 \%</math>      <math>g = 454 \%</math></p>  |
| <b>Shore hardness</b>                  | DIN 53505   | Shore A      median =89 [-]   |

Legend:     $x$  = arithm. mean value     $s = \pm$  standard deviation     $k$  = lowest value     $g$  = highest value

Table: Characteristics of the "Elastocoat C 6335/101" waterproofing system

| Properties of the waterproofing system   | Test/<br>Test conditions  | Test results   |
|--|---|--|
| <b>Thickn.</b>   | DIN EN 1849-2   | Sample condition when supplied:<br>x = 2.21 mm<br>k = 2.13 mm      g = 2.31 mm   |
| <b>Reaction in the tension test</b>  | DIN EN ISO 527<br>Specimen 1b<br>Number of specimens: 5<br>v= 200 mm/min<br>lo = 115 mm   | Max. force<br>x = 580 N/10 mm      s = 18.8<br><br>Tensile strength<br>x = 25.8 MPa      s = 0.68<br>k = 24.7 MPa      g = 26.5 MPa<br><br>Strain at max. force [%]<br>x = 524 %      s = 14.1<br>k = 482 %      g = 541 %   |
| <b>Shore hardness</b>  | DIN 53505   | Shore A      median =94 [-]  |
| <b>Resistance against mechanical damage as a result of dynamic and static indentation</b><br><br>• Impermeability to water in the loaded state | <u>Load characteristics</u><br>• <b>Dynamic indentation acc. to TR-006</b><br>• 24-hour exposure to a 0.1-metre water column (test method 5.3.1.2)<br>• Number of specimens: 3<br><br><u>Load characteristics</u><br>• <b>Static indentation acc. to TR-007</b><br>• 24-hour exposure to a 0.1-metre water column (test method 5.3.1.2)<br>• Number of specimens: 3 | Substrate: concrete<br>P4: 6-mm indenter: tight<br><br>Substrate: mineral wool DAA <sup>*)</sup> :<br>P4: 6-mm indenter: tight<br><br>Substrate: concrete<br>P4: 250-N imposed load: tight<br><br>Substrate: mineral wool DAA <sup>*)</sup> :<br>P4: 250-N imposed load: tight |
| <b>Resistance against the effects of low surface temperatures</b>  | <b>Low temperatures:</b><br><br><u>Load characteristics</u><br>• <b>Dynamic indentation</b> acc. to TR-006<br>Substrate: concrete<br>* 24-hour exposure to a 0.1-metre water column (test method 5.3.1.2)<br>* Number of specimens: 3   | Test temperature: -30°C (TL 4)<br>P4: 6-mm indenter: tight   |

Legend: x = arithm. mean value    s = ± standard deviation    k = lowest value    g = highest value  
\*) classified in accordance with DIN 4108-10

Table: Characteristics of the "Elastocoat C 6335/101" waterproofing system,  
**Grey colouration**

| Properties of the waterproofing system | Test/<br>Test conditions  | Test results  |
|--|---|---|
| <b>Dynamic viscosity</b>               | EN ISO 3219<br>Shear rate 160 [1/s]<br><br>Shear rate 250 [1/s] | Comp. A: $x = 260 \text{ mPa} \cdot \text{s}$<br>Comp. B: $x = 1090 \text{ mPa} \cdot \text{s}$ |
| <b>Density:</b>                        | DIN EN ISO 2811-1   | Comp. A: $x = 0.999 \text{ g/cm}^3$<br>Comp. B: $x = 1.112 \text{ g/cm}^3$                      |
| <b>IR spectra</b>                      | See below   | Annex 12  |

The IR analyses were made with a Perkin-Elmer FTIR unit of type Spectrum 2000 Explorer, wave number range  $4000 \text{ cm}^{-1}$  to  $600 \text{ cm}^{-1}$ .  
The sample quantity was selected so that the DIN 51451 requirements respecting extinction conditions were complied with.  
The spectra of the liquid components shown in **Annex 12** are electronically smoothed. The original graphs are kept in the testing laboratory archives.

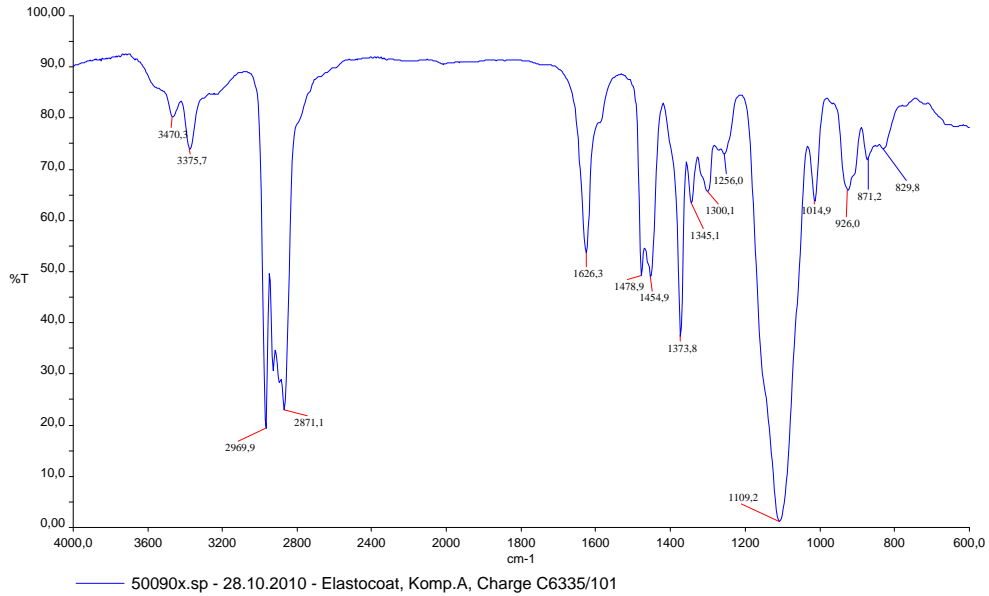
Legend:  $x$  = mean value

**Table:** Characteristics of the liquid component

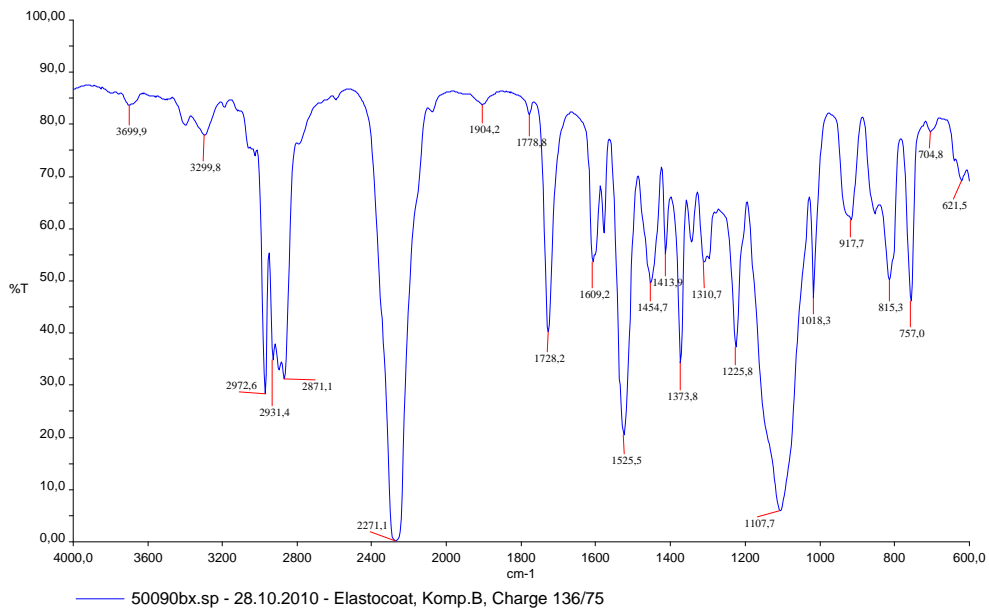
| Characteristics of the liquid components | Test/<br>Test conditions  | Test results  |
|--|---|---|
| <b>Ash determination</b>                 | DIN EN ISO 3451-1<br>Method A<br>Heat treatment: $550 \text{ }^\circ\text{C}$                                       | Mass fraction ash<br>$x = 0.35 \%$                            |
| <b>Thermogravimetric analysis (TGA)</b>  | DIN EN ISO 11358<br>Temperatures between $25$ and $1000 \text{ }^\circ\text{C}$<br>Heating rate $10 \text{ K/min.}$ | Weight loss<br>$x = 94.9 \%$<br><br>Graph see <b>Annex 13</b> |

Table: Characteristics of the "Elastocoat C 6335/101" waterproofing system,  
**Grey colouration**

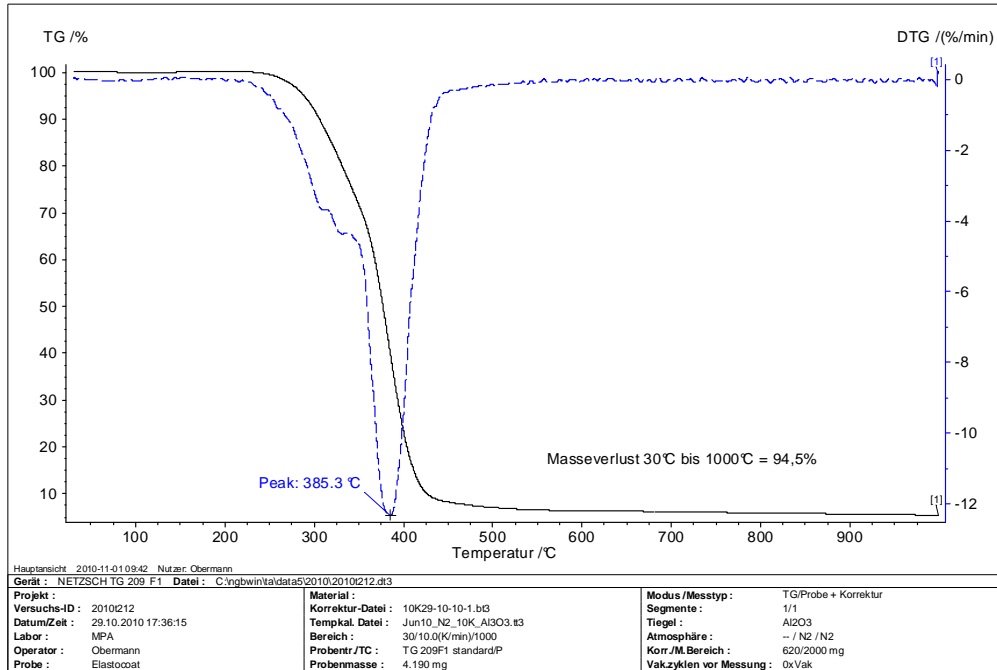
## Materialprüfanstalt für das Bauwesen, Braunschweig

IR spectrum of the "Elastocoat C 6335/101" roof waterproofing system, **comp. A**

## Materialprüfanstalt für das Bauwesen, Braunschweig

IR spectrum of the "Elastocoat C 6335/101" roof waterproofing system, **comp. B**

MPA / iBMB Braunschweig



Thermoanalytical analysis of the "Elastocoat C 6335/101" roof waterproofing system (example)