



ISTANBUL UNIVERSITY  
Engineering Faculty  
Chemical Engineering Department



10.08.2016

**TARDIGRADE ECTR 230**  
Two Component, Solvent Free Terrazzo Resin

**Product Information:**

**Appearance / Color**

Resin – part A : grey, liquid  
Hardener – part B : light yellow, liquid

**Technical Information**

**Chemical Structure :** Epoxy

**Density (ASTM D792 / ISO 1183 / DIN 53479)**

Resin – part A : 1.710 kg/l  
Hardener – part B : 1.010 kg/l  
Mixed resin A + B : 1.610 kg/l

**Viscosity (ASTM D2555 / ISO 2555 / DIN EN ISO 2555)**

Resin – part A : 9500 mPa·s  
Hardener – part B : 280 mPa·s  
Mixed resin A + B : 5500 mPa·s

**Water Absorption (ASTM D570-98 / ISO 62 / DIN 53495)**


0.002

**Potlife**

56 minutes (23 °C).

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**Mechanical / Physical Properties**

| TEST                  | METHOD     |           |           | VALUE     |           |           |
|-----------------------|------------|-----------|-----------|-----------|-----------|-----------|
|                       |            |           |           | Average   | Maximum   | Minimum   |
| Compressive strength  | ASTM D695  | ISO 604   | DIN 53454 | 125 MPa   | 128 MPa   | 119 MPa   |
| Flexural strength     | ASTM D790  | ISO 178   | DIN 53452 | 45.12 MPa | 49.31 MPa | 41.65 MPa |
| Maximum force         | ASTM D638  | ISO 527   | DIN 53457 | 563 N     | 578 N     | 550 N     |
| % elongation at break | ASTM D638  | ISO 527   | DIN 53457 | 6.53%     | 7.08%     | 6.17%     |
| Bond strength         | ASTM D7234 | ISO 16276 | DIN 16276 | 5.32 MPa  | 6.27 MPa  | 5.08 MPa  |
| Shore D hardness      | ASTM D2240 | ISO 868   | DIN 53505 | 84        | 86        | 74        |

Test results for Tardigrade ECTR 230 Two Component, Solvent Free Terrazzo Resin.





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**Chemical Resistance**

| Chemicals             | Values |
|-----------------------|--------|
| HYDROCHLORIC ACID 25% | 2      |
| HYDROCHLORIC ACID 10% | 3      |
| NITRIC ACID 25%       | 2      |
| NITRIC ACID 10%       | 3      |
| FORMIC ACID 25%       | 2      |
| FORMIC ACID 10%       | 3      |
| ACETIC ACID 25%       | 3      |
| ACETIC ACID 10%       | 3      |
| SULPHURIC ACID 25%    | 3      |
| SULPHURIC ACID 10%    | 3      |
| LACTIC ACID 25%       | 3      |
| LACTIC ACID 10%       | 3      |
| ETHYL ALCOHOL         | 3      |
| AMMONIA               | 3      |
| PERCHLOROETHYLENE     | 3      |
| DIESEL FUEL           | 3      |
| ACETONE               | 3      |
| FUEL THINNER          | 3      |
| HYDRAULIC OIL         | 3      |
| THINNER               | 3      |

Excellent 3 Good 2  
Low 1 Not resistant 0

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