



ISTANBUL UNIVERSITY  
Engineering Faculty  
Chemical Engineering Department



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**TARDIGRADE EPHP 150**

Modified Epoxy Based, Two Component, Solvent Free Primer

**Product Information:**

**Appearance / Color**

Resin – part A : transparent, liquid  
Hardener – part B : pale yellow, liquid

**Technical Information**

**Chemical Structure :** Epoxy

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

Resin – part A : 1.100 kg/l  
Hardener – part B : 1.010 kg/l  
Mixed resin A + B : 1.070 kg/l

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

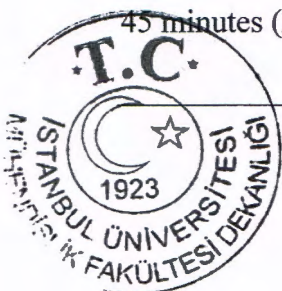
Resin – part A : 505 mPa·s  
Hardener – part B : 282 mPa·s  
Mixed resin A + B : 340 mPa·s

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

– (0.002%).

**Pot Life**

45 minutes (23 °C).



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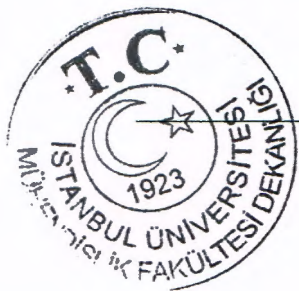


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Modified Epoxy Based, Two Component, Solvent Free Primer

**Mechanical / Physical Properties**

| TEST                  | METHOD     |          |           | VALUE     |           |           |
|-----------------------|------------|----------|-----------|-----------|-----------|-----------|
|                       |            |          |           | Average   | Maximum   | Minimum   |
| Compressive strength  | ASTM D695  | ISO 604  | DIN 53454 | 92 MPa    | 100 MPa   | 88 MPa    |
| Flexural strength     | ASTM D790  | ISO 178  | DIN 53452 | 45.48 MPa | 50.03 MPa | 43.53 MPa |
| Maximum force         | ASTM D638  | ISO 527  | DIN 53457 | 478 N     | 490 N     | 463 N     |
| % elongation at break | ASTM D638  | ISO 527  | DIN 53457 | 28.45%    | 30.13%    | 24.46%    |
| Bond strength         | ASTM D4541 | ISO 4624 | DIN 4624  | 14.23 MPa | 15.13 MPa | 13.98 MPa |
| Shore D hardness      | ASTM D2240 | ISO 868  | DIN 53505 | 76        | 79        | 72        |

Test results for Tardigrade EPHP 150 Modified Epoxy Based, Two Component, Solvent Free Primer.





## TARDIGRADE EPHP 150

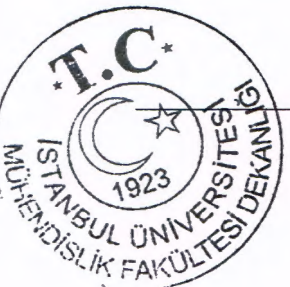
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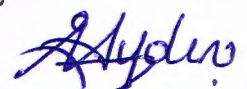
### Chemical Resistance

| Chemicals            | Values |
|----------------------|--------|
| HYDRCHLORIC ACID 25% | 2      |
| HYDRCHLORIC ACID 10% | 3      |
| NITRIC ACID 25%      | 2      |
| NITRIC ACID 10%      | 3      |
| FORMIC ACID 25%      | 2      |
| FORMIC ACID 10%      | 3      |
| ASETIC ACID 25%      | 3      |
| ASETIC ACID 10%      | 3      |
| SULFURIC ACID 25%    | 3      |
| SULFURIC 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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