



ISTANBUL UNIVERSITY  
Engineering Faculty  
Chemical Engineering Department



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**TARDIGRADE EPMT 140**

Two Component, Solvent Free, Moisture Tolerant, Epoxy Resin Based Primer

**Product Information:**

**Appearance / Color**

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

**Technical Information**

**Chemical Structure :** Epoxy

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

Resin – part A : 1.140 kg/l  
Hardener – part B : 1.020 kg/l  
Mixed resin A + B : 1.080 kg/l

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

Resin – part A : 2000 mPa·s  
Hardener – part B : 282 mPa·s  
Mixed resin A + B : 1300 mPa·s

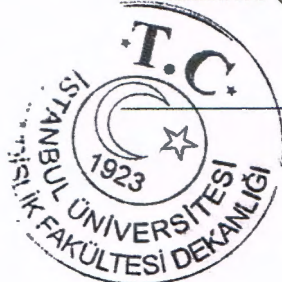
**Water Absorption (ASTM D570-98 / ISO 62 / DIN 53495)**

– (0.002%).

**Pot Life**

51 minutes (23 °C).

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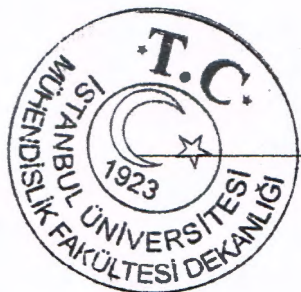
## TARDIGRADE EPMT 140

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### Mechanical / Physical Properties:

TEST	METHOD			VALUE		
				Average	Maximum	Minimum
Compressive strength	ASTM D695	ISO 604	DIN 53454	101 MPa	105 MPa	99 MPa
Flexural strength	ASTM D790	ISO 178	DIN 53452	49.95 MPa	53.56 MPa	47.61 MPa
Maximum force	ASTM D638	ISO 527	DIN 53457	388 N	391 N	386 N
% elongation at break	ASTM D638	ISO 527	DIN 53457	27.75%	29.34%	25.30%
Bond strength	ASTM D4541	ISO 4624	DIN 4624	6.80 MPa	9.42 MPa	5.81 MPa
Shore D hardness	ASTM D2240	ISO 868	DIN 53505	77	79	76

Test results for Tardigrade EPMT 140 Two Component, Solvent Free, Moisture Tolerant, Epoxy Resin Based Primer.





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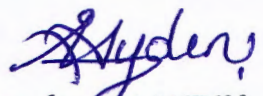
### Chemical Resistance

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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