



ISTANBUL UNIVERSITY  
Engineering Faculty  
Chemical Engineering Department



Sayı: B.30.2.İST.0.17.81.00/693 / 2056

29.10.2014

## TARDIGRADE ECTX 250

Two Component, Solvent Free, Epoxy Resin Based Floor Coating with Orange-peel Texture

### Product Information:

#### **Appearance / Color**

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

### Technical Information

**Chemical Structure :** Epoxy

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

Resin – part A : 1.840 kg/l  
Hardener – part B : 1.020 kg/l  
Mixed resin A + B : 1.640 kg/l

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

Resin – part A : 24000 mPa·s  
Hardener – part B : 440 mPa·s  
Mixed resin A + B : 3500 mPa·s

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

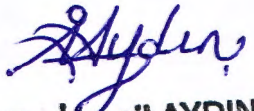
– (0.001%).

#### **Pot Life**

65 minutes (23 °C).



34320 Avcılar/ISTANBUL Tel: +90 212 473 70 70 Fax: +90 212 473 71 80

  
Prof. Dr. Ismail AYDIN  
BSc, DIC, PhD



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### Mechanical / Physical Properties

TEST	METHOD			VALUE		
				Average	Maximum	Minimum
Compressive strength	ASTM D695	ISO 604	DIN 53454	61 MPa	67 MPa	59 MPa
Flexural strength	ASTM D790	ISO 178	DIN 53452	30.16 MPa	37.48 MPa	27.64 MPa
Maximum force	ASTM D638	ISO 527	DIN 53457	382 N	395 N	374 N
% elongation at break	ASTM D638	ISO 527	DIN 53457	24.11%	29.83%	19.32%
Bond strength	ASTM D4541	ISO 4624	DIN 4624	12.03 MPa	15.53 MPa	10.27 MPa
Shore D hardness	ASTM D2240	ISO 868	DIN 53505	79	85	76

Test results for Tardigrade ECTX 250 Two Component, Solvent Free, Epoxy Resin Based Floor Coating with Orange-peel Texture.







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**TARDIGRADE ECTX 250**

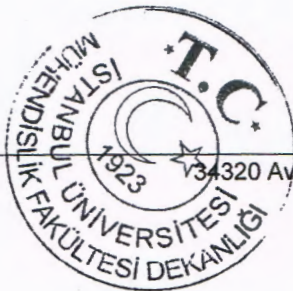
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**Chemical Resistance**

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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Istanbul University  
Engineering Faculty  
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BSc, DIC, PhD