



ISTANBUL UNIVERSITY  
Engineering Faculty  
Chemical Engineering Department



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

29.10.2014

**TARDIGRADE ECSL 210**

Two Component, Solvent Free, Epoxy Based Self-Leveling Floor Coating

**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 : 1.570 kg/l  
Hardener – part B : 1.020 kg/l  
Mixed resin A + B : 1.400 kg/l

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

Resin – part A : 2300 mPa·s  
Hardener – part B : 440 mPa·s  
Mixed resin A + B : 900 mPa·s

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

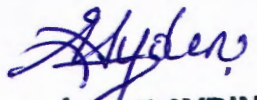
– (0.002%).

**Pot Life**

65 minutes (23 °C).

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## TARDIGRADE ECSL 210

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### Mechanical / Physical Properties

TEST	METHOD			VALUE		
				Average	Maximum	Minimum
Compressive strength	ASTM D695	ISO 604	DIN 53454	43 MPa	49 MPa	38 MPa
Flexural strength	ASTM D790	ISO 178	DIN 53452	22.86 MPa	25.40 MPa	19.84 MPa
Maximum force	ASTM D638	ISO 527	DIN 53457	311 N	320 N	308 N
% elongation at break	ASTM D638	ISO 527	DIN 53457	24.46%	28.35%	20.73%
Bond strength	ASTM D4541	ISO 4624	DIN 4624	12.15 MPa	15.34 MPa	9.87 MPa
Shore D hardness	ASTM D2240	ISO 868	DIN 53505	75	79	71

Test results for Tardigrade ECSL 210 Two Component, Solvent Free, Epoxy Based Self-Leveling Floor Coating.





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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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