



ISTANBUL UNIVERSITY  
Engineering Faculty  
Chemical Engineering Department



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## TARDIGRADE PCSL 210

Two Component, Solvent Free, Polyurethane Based Self-Leveling Coating and  
Waterproofing Material

### Product Information:

#### Appearance / Color

Resin – part A : gray, liquid  
Hardener – part B : red brown, liquid

### Technical Information

**Chemical Structure :** Polyurethane

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

Resin – part A : 1.390 kg/l  
Hardener – part B : 1.200 kg/l  
Mixed resin A + B : 1.350 kg/l

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

Resin – part A : 7000 mPa·s  
Hardener – part B : (DIN CUP 4) 13 s  
Mixed resin A + B : 3000 mPa·s

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

– (0.001%).

#### **Pot Life**

50 minutes (23 °C).



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### Mechanical / Physical Properties

TEST	METHOD			VALUE		
				Average	Maximum	Minimum
Compressive strength	ASTM D695	ISO 604	DIN 53454	–	–	–
Flexural strength	ASTM D790	ISO 178	DIN 53452	–	–	–
Maximum force	ASTM D638	ISO 527	DIN 53457	178 N	181 N	173 N
% elongation at break	ASTM D638	ISO 527	DIN 53457	155%	159%	150%
Bond strength	ASTM D4541	ISO 4624	DIN 4624	3.48 MPa	4.35 MPa	2.96 MPa
Shore A hardness	ASTM D2240	ISO 868	DIN 53505	80	83	78

Test results for Tardigrade PCSL 210 Two Component, Solvent Free, Polyurethane Based Self-Leveling  
Coating and Waterproofing Material.





## TARDIGRADE PCSL 210

Two Component, Solvent Free, Polyurethane Based Self-Leveling Coating and Waterproofing Material

### Chemical Resistance:

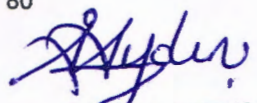
Chemicals	Values
HYDRCHLORIC ACID 25%	2
HYDRCHLORIC ACID 10%	3
NITRIC ACID 25%	2
NITRIC ACID 10%	2
FORMIC ACID 25%	3
FORMIC ACID 10%	3
ASETIC ACID 25%	3
ASETIC ACID 10%	3
SULFURIC ACID 25%	3
SULFURIC ACID 10%	3
LACTIC ACID 25%	3
LACTIC ACID 10%	3
ETHYL ALCOHOL	3
AMMONIA	3
PERCHLOROETHYLENE	3
DIESEL FUEL	3
ACETONE	3
FUEL THINNER	3
HYDRAULIC OIL	3
THINNER	3

Excellent 3 Good 2  
Low 1 Not resistant 0

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