



ISTANBUL UNIVERSITY  
Engineering Faculty  
Chemical Engineering Department



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## TARDIGRADE ERGF 910

Two Component, Solvent Free, Flowable Epoxy Filling Mortar

### 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 : 1.620 kg/l  
Hardener – part B : 1.020 kg/l  
Mixed resin A + B : 1.480 kg/l

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

Resin – part A : 4400 mPa·s  
Hardener – part B : 260 mPa·s  
Mixed resin A + B : 2000 mPa·s

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

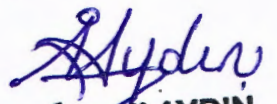
– (0.001%).

#### 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	213 MPa	225 MPa	208 MPa
Flexural strength	ASTM D790	ISO 178	DIN 53452	105.21 MPa	113 MPa	96 MPa
Maximum force	ASTM D638	ISO 527	DIN 53457	600 N	623 N	592 N
% elongation at break	ASTM D638	ISO 527	DIN 53457	3.47%	4.81%	2.46%
Bond strength	ASTM D4541	ISO 4624	DIN 4624	17.68 MPa	18.73 MPa	15.02 MPa
Shore D hardness	ASTM D2240	ISO 868	DIN 53505	80	85	76

Test results for Tardigrade ERGF 910 Two Component, Solvent Free, Flowable Epoxy Filling Mortar.





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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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