ISTANBUL UNIVERSITY
Engineering Faculty
Chemical Engineering Department

Sayı: B.30.2.İST.0.17.81.00/693 / 2056 29.10.2014

TARDIGRADE ERAC 920

Two Component, Solvent Free, Epoxy Resin Based, Fluid Expansive Anchoring 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	184 MPa	191 MPa	178 MPa
Flexural strength	ASTM D790	ISO 178	DIN 53452	91.14 MPa	94.34 MPa	88.37 MPa
Maximum force	ASTM D638	ISO 527	DIN 53457	643 N	647 N	640 N
% elongation at break	ASTM D638	ISO 527	DIN 53457	3.38%	3.44%	2.99%
Bond strength	ASTM D4541	ISO 4624	DIN 4624	17.23 MPa	18.02 MPa	16.54 MPa
Shore D hardness	ASTM D2240	ISO 868	DIN 53505	80	83	76

Test results for Tardigrade ERAC 920 Two Component, Solvent Free, Epoxy Resin Based, Fluid Expansive Anchoring 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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