



ISTANBUL UNIVERSITY
Engineering Faculty
Chemical Engineering Department



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

29.10.2014

TARDIGRADE EPST 100

Two Component, Solvent Free, Epoxy Resin Based Primer

Product Information:

Appearance / Color

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

Technical Information

Chemical Structure : Epoxy

Density (ASTM D792 / ISO 1183 / DIN 53479)

Resin – part A : 1.100 kg/l
Hardener – part B : 1.010 kg/l
Mixed resin A + B : 1.070 kg/l

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

Resin – part A : 505 mPa·s
Hardener – part B : 282 mPa·s
Mixed resin A + B : 340 mPa·s

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

– (0.002%).

Pot Life

34 minutes (23 °C).



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

Prof. Dr. İsmail 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	122 MPa	128 MPa	120 MPa
Flexural strength	ASTM D790	ISO 178	DIN 53452	60,41 MPa	63,76 MPa	59,83 MPa
Maximum force	ASTM D638	ISO 527	DIN 53457	524 N	535 N	518 N
% elongation at break	ASTM D638	ISO 527	DIN 53457	% 27,60	% 28,30	% 27,20
Bond strength	ASTM D4541	ISO 4624	DIN 4624	13,13 MPa	15,43 MPa	11,63 MPa
Shore D hardness	ASTM D2240	ISO 868	DIN 53505	80	82	79

Test results for Tardigrade EPST 100 Two Component, Solvent Free, Epoxy Resin Based Primer.



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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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