



10.08.2016

TARDIGRADE EPST 110

Two Component, Solvent Free, Epoxy Resin Based Primer

Product Information:

Appearance / Color

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

Technical Information

Chemical Structure : Epoxy

Density (ASTM D792 / ISO 1183 / DIN 53479)

Resin – part A : 1.110 kg/l
Hardener – part B : 1.010 kg/l
Mixed resin A + B : 1.080 kg/l

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

Resin – part A : 605 mPa·s
Hardener – part B : 282 mPa·s
Mixed resin A + B : 440 mPa·s

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

0.002

Potlife

35 minutes (23 °C).





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Mechanical / Physical Properties

TEST	METHOD			VALUE		
				Average	Maximum	Minimum
Compressive strength	ASTM D695	ISO 604	DIN 53454	108 MPa	110 MPa	103 MPa
Flexural strength	ASTM D790	ISO 178	DIN 53452	45,32 MPa	48,56 MPa	43,37 MPa
Maximum force	ASTM D638	ISO 527	DIN 53457	503 N	512 N	498 N
% elongation at break	ASTM D638	ISO 527	DIN 53457	% 25,73	% 28,27	% 23,65
Bond strength	ASTM D7234	ISO 16276	DIN 16276	10,98 MPa	13,93 MPa	9,29 MPa
Shore D hardness	ASTM D2240	ISO 868	DIN 53505	81	83	76

Test results for Tardigrade EPST 110 Two Component, Solvent Free, Epoxy Resin Based Primer




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Chemical Resistance

Chemicals	Values
HYDROCHLORIC ACID 25%	2
HYDROCHLORIC ACID 10%	3
NITRIC ACID 25%	2
NITRIC ACID 10%	3
FORMIC ACID 25%	2
FORMIC ACID 10%	3
ACETIC ACID 25%	3
ACETIC ACID 10%	3
SULPHURIC ACID 25%	3
SULPHURIC 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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