



ISTANBUL UNIVERSITY
Engineering Faculty
Chemical Engineering Department



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

29.10.2014

TARDIGRADE ECTC 240

Two Component, Solvent Free, Epoxy Resin Based Undercoat and Topcoat Material

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 : 1.770 kg/l
Hardener – part B : 1.020 kg/l
Mixed resin A + B : 1.570 kg/l

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

Resin – part A : 7000 mPa·s
Hardener – part B : 440 mPa·s
Mixed resin A + B : 1450 mPa·s

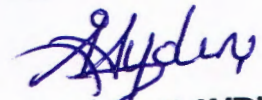
Water Absorption (ASTM D570-98 / ISO 62 / DIN 53495)

– (0.001%).

Pot Life

65 minutes (23 °C).

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Mechanical / Physical Properties

TEST	METHOD			VALUE		
				Average	Maximum	Minimum
Compressive strength	ASTM D695	ISO 604	DIN 53454	65 MPa	69 MPa	60 MPa
Flexural strength	ASTM D790	ISO 178	DIN 53452	32.59 MPa	39.51 MPa	29.83 MPa
Maximum force	ASTM D638	ISO 527	DIN 53457	330 N	360 N	314 N
% elongation at break	ASTM D638	ISO 527	DIN 53457	23.45%	28.14%	20.40%
Bond strength	ASTM D4541	ISO 4624	DIN 4624	17.29 MPa	19.34 MPa	15.68 MPa
Shore D hardness	ASTM D2240	ISO 868	DIN 53505	77	81	73

Test results for Tardigrade ECTC 240 Two Component, Solvent Free, Epoxy Resin Based Undercoat and Topcoat Material.





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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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