



ISTANBUL UNIVERSITY
Engineering Faculty
Chemical Engineering Department



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TARDIGRADE ECWB 280
Two Component, Water Based Epoxy Resin Coating

Product Information:

Appearance / Color

Epoxy – part A : orange, liquid
Resin – part B : white, liquid

Technical Information

Chemical Structure : Epoxy

Density (ASTM D792 / ISO 1183 / DIN 53479)

Epoxy – part A : 1.100 kg/l
Resin – part B : 1.600 kg/l
Mixed resin A + B : 1.280 kg/l

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

Epoxy – part A : 2400 mPa·s
Resin – part B : 4100 mPa·s
Mixed resin A + B : 8500 mPa·s

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

0.191%

Pot Life

60 minutes (23 °C).



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Mechanical / Physical Properties

TEST	METHOD			VALUE		
				Average	Maximum	Minimum
Compressive strength	ASTM D695	ISO 604	DIN 53454	-	-	-
Flexural strength	ASTM D790	ISO 178	DIN 53452	-	-	-
Maximum force	ASTM D638	ISO 527	DIN 53457	-	-	-
% elongation at break	ASTM D638	ISO 527	DIN 53457	-	-	-
Bond strength	ASTM D4541	ISO 4624	DIN 4624	-	-	-
Shore D hardness	ASTM D2240	ISO 868	DIN 53505	80	85	76

Test results for Tardigrade ECWB 280 Two Component, Water Based Epoxy Resin Coating.





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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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