İSTANBUL ÜNİVERSİTESİ
Mühendislik Fakültesi
Kimya Mühendisliği Bölümü

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

29.10.2014

TARDIGRADE EPWB 180

Water Dispersed, Two Part Primer Based on Epoxy Resin

Product Information:

Appearance / Color

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

Technical Information

Chemical Structure : Epoxy

Density (ASTM D792 / ISO 1183 / DIN 53479)

Epoxy – part A : 1.080 kg/l
Resin – part B : 1.120 kg/l
Mixed resin A + B : 1.080 kg/l

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

Epoxy – part A : 500 mPa·s
Resin – part B : 1050 mPa·s
Mixed resin A + B : 2940 mPa·s

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

0.123%

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	–	–	–
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	82	88	78

Test results for Tardigrade EPWB 180 Water Dispersed, Two Part Primer Based on Epoxy Resin

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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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