



ISTANBUL UNIVERSITY
Engineering Faculty
Chemical Engineering Department



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

29.10.2014

TARDIGRADE PCAP 750

Two Component, Solvent Based, Matte Finish, Self-Leveling, UV Resistant, Aliphatic,
Polyurethane Topcoat

Product Information:

Appearance / Color

Resin – part A : gray, liquid
Hardener – part B : transparent, liquid

Technical Information

Chemical Structure : Polyurethane

Density (ASTM D792 / ISO 1183 / DIN 53479)

Resin – part A : 1.230 kg/l
Hardener – part B : 1.080 kg/l
Mixed resin A + B : 1.200 kg/l

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

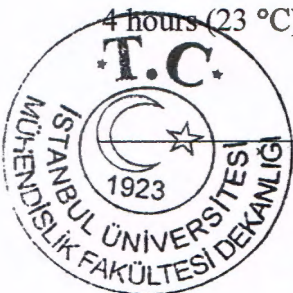
Resin – part A : 1100 mPa·s
Hardener – part B : 620 mPa·s
Mixed resin A + B : 1060 mPa·s

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

- (0.002%).

Pot Life

4 hours (23 °C).



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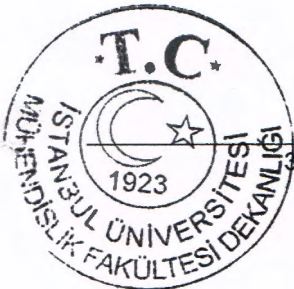
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Mechanical / Physical Properties

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	76	79	73

Test results for Tardigrade PCAP 750 Two Component, Solvent Based, Matte Finish, Self-Leveling, UV Resistant, Aliphatic, Polyurethane Topcoat.



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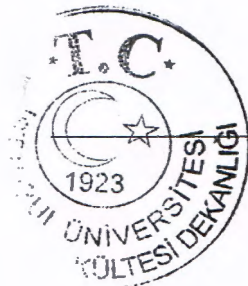
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Chemical Resistance

Chemicals	Values
HYDRCHLORIC ACID 25%	2
HYDRCHLORIC ACID 10%	3
NITRIC ACID 25%	2
NITRIC ACID 10%	2
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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