



ISTANBUL UNIVERSITY  
Engineering Faculty  
Chemical Engineering Department



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

29.10.2014

**TARDIGRADE PCAP 700**

Two Component , Solvent Based, Glossy 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).



34320 Avcılar/İSTANBUL Tel: +90 212 473 70 70 Fax: +90 212 473 71 80

Prof. Dr. İsmail AYDIN  
BSc, DIC, PhD



## TARDIGRADE PCAP 700

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

### 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	73	75	72

Test results for Tardigrade PCAP 700 Two Component , Solvent Based, Glossy Finish, Self-Leveling UV Resistant, Aliphatic Polyurethane Topcoat.





## TARDIGRADE PCAP 700

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

### 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

Prof. Dr. İsmail AYDIN  
Istanbul University  
Engineering Faculty  
Chemical Engineering Department



Prof. Dr. İsmail AYDIN  
BSc, DIC, PhD