



10.08.2016

TARDIGRADE PCTX 220

Two Component, Solvent Free, Polyurethane Based Coating with Orange-Peel Texture and Waterproofing Material

Product Information:

Appearance / Color

Resin – part A : grey, liquid
Hardener – part B : red brown, liquid

Technical Information

Chemical Structure : Polyurethane

Density (ASTM D792 / ISO 1183 / DIN 53479)

Resin – part A : 1.620 kg/l
Hardener – part B : 1.200 kg/l
Mixed resin A + B : 1.560 kg/l

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

Resin – part A : 15000 mPa·s
Hardener – part B : (DIN CUP 4) 13 s
Mixed resin A + B : 6700 mPa·s

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

0.001

Potlife

53 minutes (23 °C).





10.08.2016

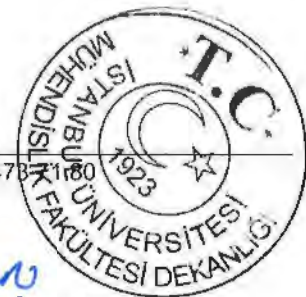
TARDIGRADE PCTX 220

Two Component, Solvent Free, Polyurethane Based Coating with Orange-Peel Texture and Waterproofing Material

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	283 N	337 N	249 N
% elongation at break	ASTM D638	ISO 527	DIN 53457	87%	96%	83%
Bond strength	ASTM D7234	ISO16276	DIN 16276	3.65 MPa	4.47 MPa	3.21 MPa
Shore A hardness	ASTM D2240	ISO 868	DIN 53505	85	89	81

Test results for Tardigrade PCTX 220 Two Component, Solvent Free, Polyurethane Based Coating with Orange-Peel Texture and Waterproofing Material.





10.08.2016

TARDIGRADE PCTX 220

Two Component, Solvent Free, Polyurethane Based Coating with Orange-Peel Texture and Waterproofing Material

Chemical Resistance:

Chemicals	Values
HYDROCHLORIC ACID 25%	2
HYDROCHLORIC ACID 10%	3
NITRIC ACID 25%	2
NITRIC ACID 10%	2
FORMIC ACID 25%	3
FORMIC ACID 10%	3
ACETIC ACID 25%	3
ACETIC ACID 10%	3
SULPHURIC ACID 25%	3
SULPHURIC 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

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


Prof. Dr. İsmail AYDIN
BSc, DIC, PhD

