



ISTANBUL UNIVERSITY
Engineering Faculty
Chemical Engineering Department



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

29.10.2014

TARDIGRADE ERAC 925

Two Component, Solvent Free, Epoxy Resin Based, Thixotropic Anchoring Mortar

Product Information:

Appearance / Color

Resin – part A : gray, paste
Hardener – part B : cream, paste.

Technical Information

Chemical Structure : Epoxy

Density (ASTM D792 / ISO 1183 / DIN 53479)

Resin –part A : 1.530 kg/l
Hardener –part B : 1.450 kg/l
Mixed resin A + B : 1.500 kg/l

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

Resin – part A : 15700 mPa·s
Hardener – part B : 26000 mPa·s
Mixed resin A + B : 16000 mPa·s

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

– (0.002%).

Pot Life

60 minutes (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 ERAC 925

Two Component, Solvent Free, Epoxy Resin Based, Thixotropic Anchoring Mortar

Mechanical / Physical Properties

| TEST | METHOD | | | VALUE | | |
|-----------------------|------------|----------|-----------|-----------|-----------|-----------|
| | | | | Average | Maximum | Minimum |
| Compressive strength | ASTM D695 | ISO 604 | DIN 53454 | 110 MPa | 118 MPa | 108 MPa |
| Flexural strength | ASTM D790 | ISO 178 | DIN 53452 | 25.35 MPa | 25.98 MPa | 23.84 MPa |
| Maximum force | ASTM D638 | ISO 527 | DIN 53457 | 206 N | 211 N | 203 N |
| % elongation at break | ASTM D638 | ISO 527 | DIN 53457 | 11.31% | 13.46% | 10.73% |
| Bond strength | ASTM D4541 | ISO 4624 | DIN 4624 | 12.40 MPa | 16.22 MPa | 10.54 MPa |
| Shore D hardness | ASTM D2240 | ISO 868 | DIN 53505 | 72 | 75 | 68 |

Test results for Tardigrade ERAC 925 Two Component, Solvent Free, Epoxy Resin Based, Thixotropic Anchoring Mortar.





TARDIGRADE ERAC 925

Two Component, Solvent Free, Epoxy Resin Based, Thixotropic Anchoring Mortar

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 |

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

