



ISTANBUL UNIVERSITY
Engineering Faculty
Chemical Engineering Department



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TARDIGRADE EPAS 190

Two Component, Solvent Free, Epoxy Based Conductive Primer

Product Information:

Appearance / Color

Resin – part A : black, paste
Hardener – part B : pale yellow, liquid

Technical Information

Chemical Structure : Epoxy

Density (ASTM D792 / ISO 1183 / DIN 53479)

Resin – part A : 1.290 kg/l
Hardener – part B : 1.020 kg/l
Mixed resin A + B : 1.210 kg/l

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

Resin – part A : 34000 mPa·s
Hardener – part B : 340 mPa·s
Mixed resin A + B : 17500 mPa·s

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

– (0.001%).

Pot Life

45 minutes (23 °C).

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Mechanical / Physical Properties

| TEST | METHOD | | | VALUE | | |
|-----------------------|------------|----------|-----------|-----------|-----------|-----------|
| | | | | Average | Maximum | Minimum |
| Compressive strength | ASTM D695 | ISO 604 | DIN 53454 | 127 MPa | 134 MPa | 110 MPa |
| Flexural strength | ASTM D790 | ISO 178 | DIN 53452 | 62.74 MPa | 65.00 MPa | 59.68 MPa |
| Maximum force | ASTM D638 | ISO 527 | DIN 53457 | 568 N | 572 N | 541 N |
| % elongation at break | ASTM D638 | ISO 527 | DIN 53457 | 6.54% | 7.33% | 5.92% |
| Bond strength | ASTM D4541 | ISO 4624 | DIN 4624 | 6.77 MPa | 7.00 MPa | 5.98 MPa |
| Shore D hardness | ASTM D2240 | ISO 868 | DIN 53505 | 76 | 79 | 72 |

Test results for Tardigrade EPAS 190 Two Component, Solvent Free, Epoxy Based Conductive Primer.





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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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