# Devcon 2 Ton® Epoxy

### Epoxy; Epoxide

Devcon

#### Message:

Extremely strong, medium-cure, water-resistant clear adhesive that will self-level after application.

Intended Use

Bonding parts in a structural environment or potting electronic components and assemblies

Product features:

Cures without shrinking

Cures at room temperature

Good impact resistance

Produces strong, rigid bond on metal, ceramics, wood, concrete, glass, or combinations

| Rigidity, high High strength Impact resistance, good Low shrinkage  Uses  Electrical/Electronic Applications Bonding  Appearance Clear/transparent  Processing Method potting Physical Nominal Value Unit Test Me Specific Volume 0.910 cm³/g  Solid content-by Volume 100 % Impact Resistance 13.7 kJ/m² Service Temperature - Dry 40-93 cr Work Time 8.0 - 12.0 min Tensile Shear Adhesion 15.5 MPa ASTM D Density¹ 1.10 0.0 % Hardness Nominal Value Unit Test Me Durometer Hardness (Shore D) 83 ASTM D Mechanical Nominal Value Unit Test Me Tensile Elongation (Break) 1.0 Mechanical Nominal Value Unit Test Me Tensile Elongation (Break) 1.0 Mominal Value Unit Test Me Test Me Tensile Elongation (Break) 1.0 Mominal Value Unit Test Me Test Me Tensile Elongation (Break) 1.0 Mominal Value Unit Test Me Test Me Tensile Elongation (Break) 1.0 Mominal Value Unit Test Me |                                    |  |  |  |  |
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| Uses Electrical/Electronic Applications Bonding  Appearance Clear/transparent  Processing Method potting  Physical Nominal Value Unit Test Method Impact Resistance 13.7 kJ/m²  Specific Volume 0.910 cm³/g  Solid content-by Volume 100 %  Impact Resistance 13.7 kJ/m²  Service Temperature - Dry -40 - 93 °C  Work Time 8.0 - 12.0 min  Tensile Shear Adhesion 15.5 MPa ASTM E  Density ¹ 1.10 g/cm³  Hardness Nominal Value Unit Test Method Impact Resistance 1.10 %  Mechanical Nominal Value Unit Test Method Impact Resistance 1.10 %  Mechanical Nominal Value Unit Test Method Impact Resistance 1.00 %  Mechanical Nominal Value Unit Test Method Impact Resistance 1.00 %  Compressive Strength 75.8 MPa ASTM E  Electrical Nominal Value Unit Test Method Impact Resistance 1.00 %  |                                    |  |  |  |  |
| Low shrinkage    Clear/transparent   | High strength                      |  |  |  |  |
| Uses Electrical/Electronic Applications Bonding  Appearance Clear/transparent  Processing Method potting  Physical Nominal Value Unit Test Method Specific Volume 0.910 cm³/g  Solid content-by Volume 100 %  Impact Resistance 13.7 kJ/m²  Service Temperature - Dry -40 - 93 °C  Work Time 8.0 - 12.0 min  Tensile Shear Adhesion 15.5 MPa ASTM E  Density 1 1.10 g/cm³  Hardness Nominal Value Unit Test Method Durometer Hardness (Shore D) 83 ASTM E  Durometer Hardness (Shore D) 83 ASTM E  Densite Elongation (Break) 1.0 %  Compressive Strength 75.8 MPa ASTM E  Electrical Nominal Value Unit Test Method Durometer Strength 75.8 MPa ASTM E  Electrical Nominal Value Unit Test Method Durometer Strength 75.8 MPa ASTM E  Electrical Nominal Value Unit Test Method Durometer Strength 75.8 MPa ASTM E  Electrical Nominal Value Unit Test Method Durometer Strength 75.8 MPa ASTM E  Electrical Nominal Value Unit Test Method Durometer Strength 75.8 MPa ASTM E  | Impact resistance, good            |  |  |  |  |
| Appearance Clear/transparent Processing Method potting Physical Nominal Value Unit Test Method Specific Volume 0.910 cm³/g Solid content-by Volume 100 % Impact Resistance 13.7 kJ/m² Service Temperature - Dry -40 - 93 °C Work Time 8.0 - 12.0 min Tensile Shear Adhesion 15.5 MPa ASTM Density 1 1.10 g/cm³ Hardness Nominal Value Unit Test Method Durometer Hardness (Shore D) 83 STATE Density 1 Nominal Value Unit Test Method Durometer Hardness (Shore D) 8.0 MPa ASTM Density 1 Nominal Value Unit Test Method Durometer Hardness (Shore D) 8.0 MPa ASTM Density 1 Nominal Value Unit Test Method Durometer Hardness (Shore D) 8.0 MPa ASTM Density 1 Nominal Value Unit Test Method Durometer Hardness (Shore D) 8.0 MPa ASTM Density 1 Nominal Value Unit Test Method Durometer Hardness (Shore D) 8.0 MPa ASTM Density 1 Nominal Value Unit Test Method Durometer Strength 75.8 MPa ASTM Density 1 Nominal Value Unit Test Method Density 2 Nominal Value Unit Test Method Density 2 Nominal Value Unit Test Method Density 3 Nominal Value Unit | Low shrinkage                      |  |  |  |  |
| Appearance Clear/transparent Processing Method potting Physical Nominal Value Unit Test Method Specific Volume 0.910 cm³/g Solid content-by Volume 100 % Impact Resistance 13.7 kJ/m² Service Temperature - Dry -40 - 93 °C Work Time 8.0 - 12.0 min Tensile Shear Adhesion 15.5 MPa ASTM EDensity 1 1.10 g/cm³ Hardness Nominal Value Unit Test Method Durometer Hardness (Shore D) 83 ASTM EDD Density 1 Nominal Value Unit Test Method Durometer Hardness (Shore D) 83 ASTM EDD Density 1 Nominal Value Unit Test Method Durometer Hardness (Shore D) 83 ASTM EDD Density 1 Nominal Value Unit Test Method Durometer Hardness (Shore D) 83 ASTM EDD Density 1 Nominal Value Unit Test Method Durometer Hardness (Shore D) 84 ASTM EDD Density 1 Nominal Value Unit Test Method Durometer Strength 75.8 MPa ASTM EDD Density Strength Nominal Value Unit Test Method Decrease Strength Nominal Value Unit T |                                    |  |  |  |  |
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| Specific Volume 0.910 cm³/g  Solid content-by Volume 100 %  Impact Resistance 13.7 kJ/m²  Service Temperature - Dry -40 - 93 °C  Work Time 8.0 - 12.0 min  Tensile Shear Adhesion 15.5 MPa ASTM D  Density 1 1.10 g/cm³  Hardness Nominal Value Unit Test Me  Durometer Hardness (Shore D) 83 ASTM D  Mechanical Nominal Value Unit Test Me  Tensile Elongation (Break) 1.0 %  Compressive Strength 75.8 MPa ASTM D  Electrical Nominal Value Unit Test Me   |                                    |  |  |  |  |
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| Service Temperature - Dry -40 - 93 C Work Time 8.0 - 12.0 min Tensile Shear Adhesion 15.5 MPa ASTM D Density 1 1.10 g/cm³ Hardness Nominal Value Unit Test Me Durometer Hardness (Shore D) 83 ASTM D Mechanical Nominal Value Unit Test Me Tensile Elongation (Break) 1.0  MPa ASTM D  |                                    |  |  |  |  |
| Work Time 8.0 - 12.0 min  Tensile Shear Adhesion 15.5 MPa ASTM D  Density 1 1.10 g/cm³  Hardness Nominal Value Unit Test Me  Durometer Hardness (Shore D) 83 ASTM D  Mechanical Nominal Value Unit Test Me  Tensile Elongation (Break) 1.0 %  Compressive Strength 75.8 MPa ASTM D  Electrical Nominal Value Unit Test Me  |                                    |  |  |  |  |
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| Durometer Hardness (Shore D) 83  Mechanical Nominal Value Unit Test Me Tensile Elongation (Break) 1.0 %  Compressive Strength 75.8 MPa ASTM D  Electrical Nominal Value Unit Test Me   |                                    |  |  |  |  |
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| Tensile Elongation (Break) 1.0 %  Compressive Strength 75.8 MPa ASTM D  Electrical Nominal Value Unit Test Me  | <br>)2240                          |  |  |  |  |
| Compressive Strength 75.8 MPa ASTM D Electrical Nominal Value Unit Test Me   | ethod                              |  |  |  |  |
| Electrical Nominal Value Unit Test Me  |                                    |  |  |  |  |
|  | D695                               |  |  |  |  |
| Dielectric Strength 24 kV/mm ASTM D  | ethod                              |  |  |  |  |
|  | <br>)149                           |  |  |  |  |
| Thermoset Nominal Value Unit Test Me   | ethod                              |  |  |  |  |

| Mixing    | ratio | hv | wein | ht.   | 1   | 2  |
|-----------|-------|----|------|-------|-----|----|
| IVIIAIIIQ | iauo  | υv | WEIG | IIIL. | - 1 | ے. |

| Component a             | Mixing ratio by capacity: 1. | 0                             |             |  |  |
|-------------------------|------------------------------|-------------------------------|-------------|--|--|
|                         | Mixing ratio by weight: 1.0  |                               |             |  |  |
|                         |                              |                               |             |  |  |
|                         |                              |                               |             |  |  |
| Component B             | Mixing ratio by capacity: 1. | Mixing ratio by capacity: 1.0 |             |  |  |
| Thermoset Mix Viscosity | 8000                         | сР                            |             |  |  |
| Additional Information  | Nominal Value                | Unit                          | Test Method |  |  |
| Cured 7 days @ 75°F     |                              |                               |             |  |  |
| Uncured Properties      | Nominal Value                | Unit                          | Test Method |  |  |

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Mixed

Tel: +86 21 5895 8519

**Curing Time** 

NOTE 1.

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

