

**5 MINUTES EPOXY**

# Taftbond 5 Minutes Epoxy

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PAGE 1

## PRODUCT DESCRIPTION

Taftbond, 5 minutes epoxy is a rapid cure, crystal clear, multipurpose, two component, room temperature curing, adhesive of high strength and toughness. It is suitable for bonding a wide variety of metals, ceramics, glass, rubbers, rigid plastics, and most other materials in common use. It is a versatile adhesive for the craftsman as well as most industrial applications.

## TYPICAL PROPERTIES

- Convenient mix ratio of 1:1
- Rapid curing
- High clarity when cured
- Excellent bonding to most metals and many plastics
- Excellent weather and environmental resistance

## PHYSICAL PROPERTIES (UNCURED)

| ITEM                       | EPOXY RESIN        | HARDENER           |
|----------------------------|--------------------|--------------------|
| Appearance                 | Liquid             | Liquid             |
| Colour                     | Clear, Transparent | Clear, Transparent |
| Viscosity, @25°C, (Pas)    | 20 - 50            | 20 - 40            |
| Mix Ratio, Parts by Volume | 100                | 100                |
| Shelf Life @25°C, Months   | 36                 | 36                 |

## CURE PROFILE

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| ITEM                                  | RESULT |
|---------------------------------------|--------|
| Gel Time, 20 Gram @25°C, Minutes      | 4 - 5  |
| Worklife, @25°C, 20 Gram, Minutes     | 8 - 10 |
| Through Cure Time, @25°C, 2 Gram, Day | 1      |
| Through Cure Time, 60°C, Hours        | 2      |

## PHYSICAL PROPERTIES (CURED)

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| ITEM                                     | RESULT     |
|--|------------|
| Glass Transition Temperature, (DMA), °C  | 45         |
| Durometer Hardness, Shore D              | 80 - 90    |
| Lap Shear Strength, Kg/cm <sup>2</sup>   | 80         |
| Tensile Strength, Kg/cm <sup>2</sup>     | 60         |
| Compression Strength, Kg/cm <sup>2</sup> | 900        |
| Service Temperature, °C                  | -40 to 120 |

## APPLICATION OF ADHESIVE

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The resin/hardener mix may be applied directly or with a spatula to the pretreated and dry joint surfaces. A layer of adhesive 0.05 to 0.10 mm thick will normally impart the greatest lap shear strength to the joint. Proper adhesive joint design is also critical for a durable bond. The joint components should be assembled and secured in a fixed position as soon as the adhesive has been applied.

## COMPLIANCE AND QUALITY

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Made under the ISO 9001 quality management system of Vitrochem Technology. RoHS declarations and Safety Data Sheets are available on request.

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