Australian Specialty Inks Pty Ltd
ABN 71 002 591 620
17 Reaghs Farm Rd, Minto NSW 2566
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# PRODUCT INFORMATION

# TWO CAN EPOXY

## Main Characteristics

| Finish | Drying | Thinner Wash up | Mesh | Stencil | Coverage | Application | Colour Range |
|---|---|---|---|---|---|---|---|
| Gloss | Touch dry approx 2 hours. Maximum final cure 7 - 10 days. | Thinner FER 180 Retarder FER 182 Wash Up FER 180. | Mono Filament fabric 62t to 140t. | Any solvent resistant or dual cure emulsion. | Approx 40sq Mt per kg. | Refer to ASI ink selector chart. | 9 Standard, 8 Basic Pantone Plus Black and White. Special colours as requested. |

**PRODUCT DESCRIPTION:**

The Two Can Epoxy ink series exhibit excellent solvent and chemical resistance and offer a high degree of adhesion to a variety of difficult to print surfaces.

As the name indicates the Two Can Epoxy ink series is a two-pack system that dries by polymerization. A catalyst FER176, added prior to use, initiates the polymerization process. The system will NOT dry or cure without the addition of catalyst.

Two Can Epoxy inks should be handled in the following manner; stir ink thoroughly, then add 1 part catalyst FER176 to 4 parts ink. This combination should be mixed well and allowed to stand for a period of 5 minutes. This time lag, refered to as the induction period is necessary to allow the catalyst to become uniformly mixed and available for the polymerization process. **Only mix quantities of ink that will be used within 5 to 6 hours as the ink will gel and become unusable after this time.**

After the addition of catalyst the ink system will air dry to a tack free state in approximately 2 hours depending on ambient temperature, but 7 -10 days are required for the film to fully cure to maximum adhesion and chemical resistance. If force drying or baking, the time to complete cure is as follows:

120 Deg. C (250 Deg F) for 10 minutes.
150 Deg. C (300 Deg.F) for 7 minutes.
180 Deg. C (350 Deg.F) for 4 minutes.

**Substrate and End-Use:**

The Two Can Epoxy ink system has displayed excellent adhesion to a wide range of industrial substrates including most metals, glass, treated polyethylene, treated polypropylene, powdercoated surfaces to name but a few. For a comprehensive list of suitable substrates refer to the A.S.I. selector chart. Two Can Epoxy inks are **NOT recommended for vinyl substrates**.

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**Thinners:**

Thin up to 10% with Two Can Epoxy Thinner FER180. To retard, thin with Two Can Epoxy Retarder FER182.

**Opacity and Lightfastness:**

| Number | Description | Opacity | Lightfastness | Number | Description | Opacity | Lightfastness |
|---|---|---|---|---|---|---|---|
| 111 | Black | Opaque | Excellent | 59 | Permanent Blue | Trans | Excellent |
| 112 | White | Opaque | Excellent | 00 | Basic Yellow | Semi Opaque | Good |
| 22 | Fire Red | Semi Opaque | Good | 01 | Basic Warm Red | Semi Opaque | Good |
| 24 | Orange | Semi Opaque | Good | 02 | Basic Rubine | Trans | Excellent |
| 30 | Primrose Yellow | Opaque | Good | 03 | Basic Rhodamine | Trans | Excellent |
| 32 | Lemon Yellow | Semi Opaque | Good | 04 | Basic Purple | Trans | Excellent |
| 34 | Golden Yellow | Semi Opaque | Good | 05 | Basic Reflex Blue | Trans | Excellent |
| 42 | Emerald Green | Opaque | Good | 06 | Basic Process Blue | Trans | Excellent |
| 52 | Light Blue | Opaque | Excellent | 07 | Basic Green | Trans | Excellent |
| 57 | Royal Blue | Opaque | Excellent | | | | |

**General Remarks:**

Stir well before use. Always test ink before starting production run as there is often a considerable difference between like substrates from different suppliers.

Ensure the surface to be printed is clean as improperly cleaned surfaces may result in imperfections in the printed ink film. These may take the form of craters or crawling of the ink. If this problem is encountered thoroughly clean the print surface with alcohol to remove any contamination.

Epoxy inks are NOT suitable for extended outdoor exposure. If they are to be used in an outdoor situation the inks must be post coated with an acceptable protective coating.

# It is recommended that the Two Can Epoxy SDS be consulted before using this product.