

TECHNIREZ R1301 is a solvent free, fire-retardant epoxy flow-coat specifically formulated for use with H1301 hardener to cure at room temperature to provide a fire-retardant coating.

The non-sag nature of the system makes the coating of vertical surfaces very easy, and optimum results can be achieved with a single coat applied with a 75mm wide short-bristled fibreglass brush.

The formulation was designed to meet AS/NZS 1530.3:1999 requirements, and the cured film is tough, with good flexibility and excellent chemical resistance.

Fire-retardant flow-coats are widely accepted in the fabrication of composite parts (FRP) for building, architectural, mass transit and industrial applications.

- One coat application
- Tintable
- Good brushability, self-levelling and easy to mix

TECHNIREZ R1301 is also suitable for use as a fire-retardant gel-coat.

**MIX RATIO**

50 parts hardener to 100 parts resin by weight

*Note: Care should be taken when dispensing and mixing. Do not attempt to control the cure time by altering the hardener ratio. Contact ATL Composites for specific information.*

**UNCURED PROPERTIES**

|                              | R1301        | H1301                   |
|------------------------------|--------------|-------------------------|
| Physical State               | White Liquid | White Thixotropic Paste |
| Viscosity mPas @ 25°C        | 6250         | 11800                   |
| Specific Gravity g/ml @ 25°C | 1.65         | 1.37                    |

**CURE CHARACTERISTICS**

|  |         |
|--|---------|
| Pot Life -100g@25°C (in air)                     | 53 mins |
| Thin film open time @25°C                        | 3.5 hrs |
| Cure to maximum strength                         | 3 days  |
| Mix viscosity @25°C                              | 8450    |
| Shore D Hardness (24hrs @ ambient +16hrs @ 40°C) | 80      |

**AS/NZS 1530.3 - 1999  
Test # 7-599094 -CQ\***

|                       |    |
|-----------------------|----|
| Ignitability Index    | 13 |
| Spread of Flame Index | 0  |
| Heat Evolved Index    | 2  |
| Smoke Developed Index | 5  |

\*Coating Thickness 500 microns

**APPLICATION**

The surface to be coated should be dry and free from contaminants. **STIR BEFORE USING.**

**Mix Time** - Stir the resin and hardener together thoroughly, for at least 1 minute - longer in cooler temperatures. To assure thorough mixing, scrape the sides and bottom of the pot with the flat end of the mixing stick as you mix. If using a power mixer, occasionally scrape the sides and corners.

**IMPORTANT :** Limit Air Exposure - Replace the lid of the hardener container as soon as liquid has been dispensed to avoid contact with oxygen in the air and the formation of a rubber-like layer / skin occurring. If a skin does form, it should NOT be blended or otherwise mixed into the remaining liquid - pour the remainder into a new and clean container and seal tightly.

*Note: R1301 / H1301 is not to be thinned under any circumstances, as it has been formulated to optimal viscosity for this specific application.*

R1301 can be hand or spray applied, applicator should conduct trial as results will be dependant on applicator and equipment. For external use the coating should be painted to protect from UV degradation.

For larger areas , mixing batches of 1 kg at a time is recommended.

**COVERAGE**

1 mixed kilo of R1301/H1301 delivers approx 1.29m<sup>2</sup> based on 500 micron thickness.

| PACK SIZES |       |            |        |        |
|------------|-------|------------|--------|--------|
| Order Code |       | Order Code |        | PACK   |
| Resin      |       | Hardener   |        |        |
| RB1301     | 1 kg  | HB1301     | 0.5 kg | 1.5 kg |
| RC1301     | 4 kg  | HC1301     | 2 kg   | 6 kg   |
| RD1301     | 20 kg | HD1301     | 10 kg  | 30 kg  |

### STORAGE

TECHNIREZ R1301 resin and H1301 hardener will keep for 2 years if kept in original containers at room temperature (15°C to 32°C), and out of direct sunlight. Containers should be tightly sealed to prevent moisture absorption.

### HEALTH AND SAFETY

TECHNIREZ R1301 resin and H1301 hardener have moderate sensitising potential, and should be kept out of the eyes and off the skin.

- Use with good ventilation and adequate safety equipment including impervious gloves and safety glasses.
- If skin contact occurs, remove contaminated clothing immediately, and wash the affected area thoroughly with ATL's 845 hand cleaner and water, avoiding the use of solvents except in the case of massive contamination.
- If eye contact occurs, immediately flush with running water for at least 15 (fifteen) minutes and seek medical advice.
- If swallowed:

**Resins** - DO NOT induce vomiting, and contact a doctor or the Poisons Information Centre.

**Hardeners** - DO NOT induce vomiting, give plenty of milk or water and contact a doctor or the Poisons Information Centre.

NOTE Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, express or implied, including any warranty or merchantability or fitness, nor is protection from law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special or consequential damages. 16.12.15

