

## **Application of Hycote 151™ by Brush or Roller (HS151-1-September 89)**

### **Introduction:**

Most applications of Hycote 151™ utilize the PAM application equipment which proportions and mixes the Base and Curing Agent components immediately prior to spraying or rolling. When the area to be painted is only a few hundred square feet or when small enclosed spaces must be coated, it is convenient to apply Hycote 151™ using a brush or roller. In these cases, the product is mixed from containers of Resin Base and Curing Agent. Since usable life of Hycote 151™ is limited, it is essential to consume all mixed material within 30 minutes of mixing at 24°C (75°F). Pot life at 30°C (85°F) is approximately 15 minutes.

### **Equipment and Material Required:**

- 1) Hycote 151™ Coating - Resin and Curing Agent
- 2) Brushes, Short-Nap Rollers, Painting Trays
- 3) Organic Cleaning Solvent
- 4) Chemical Splash Goggles, Rubber Gloves

### **Preparation of Surface:**

All surfaces to be coated must be thoroughly cleaned of grease, foreign matter and loose superficial material. Steel substrates should receive the best preparation possible in the circumstances before coating, that is ideally, abrasive blasting or abrasive hydro-blast to "near-white", SSPC-SP-10, (SA 2.5; NACE 1) standard. Where it is not possible to abrasive blast before coating, adequate performance can be obtained by thorough power cleaning using an abrasive disc, needle scaler or similar device. Wire brushes should be avoided if possible, since they tend to polish contamination rather than remove it.

Concrete, cement and masonry substrates should be prepared by removal of laitance, and then etched by chemical (10% acid by volume) or mechanical means (dry or wet abrasive blast). Great care is required when cleaning and painting old concrete. Anything other than light oil contamination is extremely difficult to remove completely and will seriously affect paint adhesion.

If steel and concrete surfaces have been prepared to the recommended standard of cleanliness, primers are not required either above or below water.

Neither Hycote 151™ nor any other protective coating should be applied over an existing unsound paint system.

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## Application of Hycote 151™:

All surfaces must be properly prepared before application (refer to Preparation of Surface above). For best results and proper mixing, it is essential to warm the individual components up to 100 - 120°F (38 - 48°C). Thoroughly mix the Resin Base and Curing Agent, individually, then combine and blend the two components with a mixing ratio of Resin to Curing Agent of 4:1 by weight (3:2:1 by volume), using a power mixer. Thinning is not recommended. The mixture reacts exothermically, i.e. it evolves heat upon curing. This evolution of heat further accelerates the reaction. In order to prolong the useful potlife, it is recommended to:

- Split into smaller containers after mixing, (i.e. into empty coffee cans);
- Pour into a painter's tray in order that evolved heat may be released more readily;
- Put mixed material in a cold water bath;
- Apply the Hycote 151™ in a heavy film using brush or roller;

**Note:** Since this material contains no solvent and cures chemically, it will not skin, shrink, or crack upon curing - even in very heavy areas.

After the first coat has been applied for about 4 hours (24°C/75°F) it is advisable to brush apply a "stripe" coat on all sharp edges, welds, cutouts, and other discontinuities in order to ensure good coverage on peaks.

**Brushing:** Use short stiff bristle brush.

**Rolling:** Use a short-nap roller.

**Recoating/Overcoating:** Depending on conditions, recoating/overcoating is possible after 8 - 16 hours of first coat application. The surface of the first coat must also be free of dirt, oils and algal growth (underwater use). All other recoating/overcoating (after 36 hours) to be preceded by whip-blast and cleaning of original coating in order to obtain a good profile. Consult **UT Technologies Limited - Technical Department** prior to recoating for interval duration and overcoating materials.

**Reinstatement:** Sand or brush blast to feather edges and both clean and roughen the surface before repairing any damaged coating. Recoat as applicable.

Coated areas will be ready for service after the following intervals @ 24°C/75°F:

Light Foot Traffic	12 hours
Wheeled Traffic	24 hours
Water, Slops in Tanks	24 hours
Exposure to Hydrocarbons and Aggressive Chemicals	36 hours

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**Safety:**

Hycote 151™ is non-flammable and presents no fire hazard during application.

This is a hazardous material if misused. Read and understand **Material Safety Data Sheet** before use. Mixing of Hycote 151™ produces considerable heat via exothermic reaction, use extreme caution when mixing Hycote 151™ by hand.

**Do Not** mix in quantities greater than 3 (three) litres/1 (one) US gallon.

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