

# Product Data Sheet

680-(3)-04/15



ISSUED: 25 April 2015

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## 678 Universal Undercoat

USE



THINNER/CLEAN



669  
Fx150  
Thinners

APPLICATION



RE-COAT



8 Hrs

HAZARD

ISOCYANATES



*678 Universal Undercoat is a two-pack Polyurethane based, pigmented undercoat designed for use on surfaces such as timber, fiberglass hardboards, fibrous cement, concrete etc., Also suitable on primed surfaces such as Aluminum or Steel. For superior adhesion over difficult to paint surfaces See Data Sheet for 643 Ceramaglass.*

**USES:** 678 Universal Undercoat can be applied over many single-pack paints such as: alkyd enamels, water based acrylics, automotive paints and furniture lacquers and acts as a barrier coat allowing products such as 677 Supergloss to be used as a topcoat, without fear of reaction. 678 Universal Undercoat is **NOT** suitable over Chlorinated Rubber Paints such as 688 Formacoat.

**Packaging:** 678 Universal Undercoat is a two pack product and is therefore sold in two packages, one containing the Base and the other containing the Hardener. Prior to application these should be thoroughly mixed together in the correct proportions (see mixing). It is available in 1 Litre, 2 Litre and 4 litre packs (sufficient base and hardener is supplied to make the total pack size).

**Storage:** As supplied, the storage properties of these materials are almost indefinite providing the tins are kept sealed and away from moisture and heat. The 662 FX hardener is particularly sensitive to moisture. Ensure the can is always tightly sealed when not in use.

Mixing: The mix ratio for this product is 3 parts 678 Universal Undercoat Part A to 1 part 662 FX hardener as Part B by volume.

**Pot Life:** Only mix sufficient material for each coat. Maximum pot life of mixed material is 8 hours. Any unused material that has been activated for more than 8 hours will be unusable. These times are based on an ambient temperature of 25°C. Pot life reduces with increasing temperature.

**Application:** Application is by means of a Paint Brush, quality short nap Mohair Roller or Spray Gun. For brush or roller application 678 Universal Undercoat normally does not require thinning. For conventional spray application the product should be thinned by 10 - 20% with 669 FX150 Thinners.

An almost flawless finish can be produced by spray applying the products however it is **ESSENTIAL** that when spraying 678 Universal Undercoat that you ensure that you are fully aware of the risks and precautions involved in spray painting isocyanate containing coatings. We do not recommend spray application by the do-it-yourself applicator. Where possible such painting should be done in an approved spray booth. An independent air supplied full face respirator complying with AS/NZS 1715 Selection, use and maintenance of respiratory protective devices should be used.

**Coverage:** Coverage of 678 Universal Undercoat is approximately 9 to 12 m<sup>2</sup>/liter depending on the surface being coated, i.e., on rough concrete approx. 9 m<sup>2</sup>/litre, timber or fiberglass approx. 12 m<sup>2</sup>/litre.

**Drying Time:** 678 Universal Undercoat is designed to air dry but can also be dried or cured at elevated temperatures such as infra-red or conventional heat as follows:

### AIR DRIED (at 25°C and 50% humidity)

Dust Free approx. 30 min  
Tack free approx. 2 hours  
Dry for sanding approx. 8 hours  
Re-coat time approx. 8 hours

### STOVING TEMPERATURES

93°C (200°F) for 20 minutes  
116°C (250°F) for 15 minutes

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Customers need to appreciate that as Topline Paint cannot control the conditions under which our products are used, we therefore are unable to guarantee suitability or accuracy in every situation. If any doubt exists, do check with our technical people. Before large-scale use always test on a small sample and ascertain suitability. No warranties express or implied are made. The risks and liability arising from handling, storage, use and compliance with legal restrictions, rests with the buyer.



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Note: 678 Universal Undercoat should be sanded with 180-220 grit sand paper before recoating with either itself or any other product such as 664 Sanding Primer or 677 Supergloss.

**Reducing Re-coat Time:** Can be reduced to 2 hours by adding 657 QD 250 Accelerator at 113gms per litre (10 per cent) exactly of volume mixed. The pot life when using 657 QD 250 Accelerator is reduced to 3 hours.

**Curing:** 678 Universal Undercoat will fully cure in 7 days at temperatures over 10°C.

**Thinners:** 669 FX150 Thinners.

**Clean up:** Equipment should be cleaned with 669 FX150 Thinners before the material is allowed to harden. Use only industrial hand cleaners and barrier creams. **DO NOT USE SOLVENTS TO CLEAN SKIN.**

**Health and Safety:** While following the usual acceptable occupational hygiene precautions, no adverse effects have been encountered, or are expected with products of this class. When mixed with appropriate amount of 662 FX hardener this product contains less than 0.01% weight of hexamethylene diisocyanate. Refer to the warning under 'application' regarding spray application of this product.

**Application Conditions:** Do not apply this product when the temperature is below 10°C or above 30°C. Do not apply this product when the relative humidity is above 85% or when dew or rain is imminent. Do not apply this material to surfaces with a temperature of less than 10°C or above 30°C – remember surface temperature can be quite differ from ambient temperature.

### PRECAUTIONS:

*The following information is a general guide only. Industrial users (ie where the product is being used in the workplace) are legally required to have available a Material Safety Data Sheet on this product. If you are unsure if you have an MSDS on this product please contact Topline Paint and one will be provided.*

**Safety Directions:** **KEEP OUT OF REACH OF CHILDREN – DO NOT SWALLOW.** Breathing the vapour is harmful and may cause lung irritation. Avoid contact with skin and eyes. Wear suitable, protective clothing, eye protection and impervious gloves when mixing and using. Handling and usage of this product must be carried out under well ventilation conditions that prevent inhalation of vapours, dust or mist. Use the appropriate breathing equipment (refer to Aust Stand. 1716) when ventilation is restricted. Keep containers closed when not in use. Eliminate any source of ignition (open fires, pilot lights, furnaces, spark producing switches etc.) as this product is flammable. **DO NOT SMOKE.** Take precautionary measures against static discharges. Used clean up rags may spontaneously ignite. To avoid ignition immerse in water or store in a sealable glass container.

**First Aid Instructions:** If affected by inhalation, remove to fresh air. If breathing difficulty persists or occurs later, consult a doctor. If swallowed, **DO NOT INDUCE VOMITING** drink plenty of water and seek medical advice. Contact a Doctor of Poisons Information Centre (Phone 131126). If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water. If irritation occurs seek prompt medical advice. Immerse contaminated clothing in water for 24 hours and do not use until laundered. In case of eye contact, hold eyes open and flood with running water for at least 15 minutes seek medical advice.

**Leaks, Spills and Disposal:** To prevent ignition of fumes product shut off all ignition sources. Contain or shut off leak if safe to do so. For large leaks or spills of volatile, flammable product, use respiratory protection, protective apparel and footwear. Spills should be absorbed either with rags (small spill) or dry sand/earth (large spill). In the case of flammable product spillage, use spark free implements to place rags or absorbed material into a solvent resistant container. Cover with water for 24 hours before disposal. DO NOT pour left over product down the drain – retain it in marked sealed container for future use or disposal through chemical waste collection programs. Dried empty cans can be recycled and should be disposed of via council steel recycling facilities.

**Fire:** Use foam and breathing apparatus. Avoid breathing products of combustion.

**Hazard:** The coloured square at the top of page 1 is provided for a quick reference as to the hazard level of a product. Blue refers to coatings with low hazard (eg water based wall paints). Yellow refers to medium hazard products such as QD enamels, which contain solvents, are flammable and need respirators for vapour protection. Red refers to products with special hazards such as isocyanate cured two pack finishes

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