



Crystal Urethane

Technical Data Sheet

March 2013

**501 – Satin M
503 – Hi-Gloss**

501 – Satin

502 – Semi-Gloss

Description

Timber Pro Crystal Urethane is a non-yellowing waterborne oil modified urethane/acrylic for interior and exterior use on all species of wood. Crystal Urethane has special built in UV absorbers and light stabilizers to give your wood surfaces that extra protection needed from the discoloring effects of the sun.

Where to Use

Timber Pro Crystal Urethane can be used on all interior surfaces to give a tough and durable protection for the wood along with providing protection for the wood along with providing protection from the ultraviolet and harmful effects to the wood. The following are areas of use for the crystal urethane.

INTERIOR

- wood walls
- floors
- doors
- counter tops
- trims
- cupboards

EXTERIOR

- doors
- window sills

RESTRICTIONS

Timber Pro Crystal Urethane is not recommended for large outside areas (decks, siding, Logs or garage doors)

- Do not use below waterline on boats
- Do not use over paint or non-wood surfaces
- Do not thin
- Do not use over water repellants or stained sealers containing water repellants

Features and Benefits

- Can be used in interior and exterior wood surfaces
- Non-yellowing formula
- Very chemical resistant
- Very abrasion resistant
- Excellent UV protection



Crystal Urethane

Technical Data Sheet

March 2013

501M – Matte
503 – Hi-Gloss

501 – Satin

502 – Semi-Gloss

Color Range and Packaging

Color : Clear
All gloss levels may be tinted to the complete Timber Pro color series (TR series) Transparent . Use only Timber Pro pigments to tint

Packaging: 1US Quart, 1 US Gallon ,5 US gallon pail

Properties

Viscosity - 15 – 30 seconds with #4 Ford Cup

Gloss Level - Matte 12
Satin 25 - 35 GU @ 60 degree
Semi 45 - 60 GU @ 60 degree
Gloss 70 - 85 GU @ 60 degree

Solids by Weight - 32 % +/- 1%
Solids by Volume - 28% +/- 1%

V.O.C. - 153-157 g/l minus water (1.24 lbs. per US gallon) depending on gloss level

Density - 8.4 lbs./Gal.

Dry Time - 30 min touch dry
4 hours through dry

Shelf Life

Approximately two years in an unopened container

KEEP FROM FREEZING

Coverage

Smooth Wood: 400 – 500 square feet per gallon

Note : this will vary with the porosity of the wood

Application

Use a spray applicator or nylon polyester brush



Crystal Urethane

Technical Data Sheet

March 2013

501M – Matte
503 – Hi-Gloss

501 – Satin

502 – Semi-Gloss

Clean Up

With soap and mild detergent

Product Disclaimer

The technical information and suggestions for use herein are based on Timber Pro Coatings Ltd research and experience and believed to be reliable. But such information and suggestions do not constitute a warranty. Since Timber Pro Coatings has no control over the conditions under which the product is transported, stored, handled, used or applied, buyers must determine for themselves by preliminary tests or otherwise the suitability of the product for their purposes.

Timber Pro Coatings Ltd

#140-12051 Horseshoe Way, Richmond, BC V7A 4V4

Ph: 604-270-4244 Fax: 604-270-4247 Toll Free: 1-877-666-4244

Email: canadainfo@timberprocoatings.com



MATERIAL SAFETY DATA SHEET

Date of issue : August 16 1999

Revision Date: Feb 13, 2019

SECTION 01: PRODUCT & COMPANY IDENTIFICATION

Manufactured by: Timber Pro Coatings Ltd
140 -12051 Horseshoe Way
Richmond, B.C.
V7A 4V4
(604) 270-4244

Product Name: **Crystal Urethane**
501 Satin M
501 Satin
502Semi Gloss
503 Gloss

Product Type : Interior /Exterior urethane varnish
UN Number : Not applicable
Product Class : Protective / decorative coating
C.A.S. Number : Mixture

SECTION 02: HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>Content</u>	<u>LD50s and LC 50s Route and species</u>
N-methyl-2-prolidone	872-50-4	2.5 -3%	LD50 Oral Acute: 3914mg/kg (Rat) LD50 Dermal Acute: 8000mg/kg (Rabbit)
Triethylamine	121-44-8	1%	LD 50 Oral Acute: 460mg/kg (Rat) LD50 Dermal Acute : 570mg/kg

SECTION 03: PHYSICAL DATA

Physical State Liquid
Appearance Viscous opaque cream colored liquid
Odor Slight ammonia odor
Evaporation Rate Equals water
Boiling Point 100°C (212°F)
Freezing Point 0°C (32°F)
Specific Gravity 1.01
Volatile %, max 74 % by weight
VOC, Max Satin M max 159g/l minus water
Satin max 157g/l minus water
Semi -Gloss max 154 g/l minus water
Gloss max 153 g/l minus water

Crystal Urethane MSDS

CONTINUED



SECTION 04: FIRE AND EXPLOSION HAZARD DATA

Flammability Class: N/A **Flash Point:** N/A **LEL:** N/A

WHMIS Class Non-combustible liquid

Extinguishing Media:

Foam, dry chemical, carbon dioxide or any Class B extinguishing agent. Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers cool.

Special Firefighting Procedures:

Firefighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus.

Unusual Fire & Explosion Hazards:

Closed containers may rupture when exposed to extreme heat.

Air oxidation of this product may cause it to spontaneously ignite. **To avoid spontaneous combustion, soak soiled rags, spray booth filters and over spray wastes in a water-filled container.**

SECTION 05: HEALTH HAZARD DATA

Skin Contact: Repeated exposure and washing may irritate the skin.

Inhalation: Excessive exposure to vapors or spray mists may cause irritation of the respiratory tract.

Eye Contact: May cause upper respiratory irritation.

Carcinogenicity: This material does not contain 0.1% or more of any substance which is listed as a carcinogen by NTP, TARC or OSHA.

First Aid: Skin: Wash with soap and water immediately.

Eyes: Flush with large quantities of water for 15 minutes and seek medical attention.

Ingestion: If ingested get medical attention immediately.

SECTION 06: REACTIVITY DATA

Chemical Stability: Stable

Incompatibility: Strong oxidizing agents

Reactivity Conditions: Not reactive

Haz. Decomp Products: Carbon Dioxide, Carbon Monoxide

SECTION 07: SPILL OR LEAK PROCEDURES

Leaks or spills: Wear protective equipment during cleanup. Ventilate area. Keep spectators away. Floor may be slippery. Contain spill with inert material or absorbent such as sawdust vermiculite or sand. Do not allow material to enter drain or waterways.

Waste Disposal: Allow the absorbed material to dry and landfill the solids in accordance with current federal, state, provincial and local regulations.



SECTION 08: SPECIAL PROTECTION INFORMATION

Clothing: Long sleeved cover-alls, rubber gloves, goggles and safety shoes are recommended.
Ventilation: General ventilation is required during normal use. Local ventilation may be required during certain operations, which generate fumes or spray mists.
Respiratory: A canister type respirator may be necessary if spray mists or fumes are generated. A NIOSH approved organic vapour mask with a dust/mist pre-filter is recommended.

SECTION 09: SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:
Avoid prolonged or repeated inhalation of heated vapours or spray mists. Keep away from heat or open flame. Avoid all skin contact.
Other Precautions: None known.

SECTION 10: SUPPLEMENTAL INFORMATION

Regulatory Information

TDG / DOT Not regulated
DSL / TSCA All raw materials listed
HMIS Rating: Health = 1 Fire = 0 Reactivity = 0

SARA & WHMIS Classification: This material is not considered as a hazardous substance as defined by SARA Title 111 regulations (40 CFR 372)

SARA SECTION 313 LISTED INGREDIENTS: This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372

CANADIAN WHMIS CLASSIFICATION: Not WHMIS hazardous

Storage & Shipping: Keep from freezing.
TDG Class: Not Regulated
DOT: Not Regulated

Disclaimer : While Timber Pro Coatings believes the data contained herein are accurate and derived from qualified sources, the data are not to be taken as a warranty or representation for which Timber Pro Coatings assumes legal liability. They are offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with Federal, State and Provincial and local laws and regulations.

PROCHAINEMENT