

IsoThane 54TC

IsoThane 54TC is single component, aliphatic polyurea coating. This seamless system exhibits extraordinary performance characteristics when applied as topcoat over waterproofing membrane system, concrete, plywood, or other substrates. It has excellent color and gloss stability, even under harsh UV exposure. This coating creates an extremely durable, water-resistant and chemical resistant finish.

APPLICATIONS

- Concrete coating
- Floor Coating
- Pedestrian traffic surfaces such as decks and balconies
- Plywood
- Top Coat
- Waterproofing

PRODUCT ADVANTAGES

- Adhesion on wide variety of substrates
- Aliphatic top coat
- Can be applied by rolling or brushing.
- Cures at ambient temperature
- Excellent color stability
- Long pot life
- One Component
- Outstanding Weatherability
- UV resistant
- Waterproof

RECOMMENDED HANDLING INSTRUCTIONS

▪ **WARNING!** - Please carefully read and understand these directions BEFORE beginning any work.

▪ Do not dilute this product under any circumstance

▪ Containers that have been opened must be used as soon as possible.

▪ Required Items: Rollers & Extensions, Brushes, Masking tapes

• SURFACE PREPERATION

1) Ensure Main Coat or Primer is properly cured before applying this product. Surfaces must be dry, clean and free of foreign matter.

2) Mask off any cut lines with cutting tape or other masking tape and paper or plastic as needed. Walls, doors, edges, etc may be masked as needed.

• MIXING

Mix well the product using a mechanical mixer at slow speed for 3-5 minutes until a homogeneous mixture and color is obtained prior to use. Be sure not to whip air into the material as this may result in pinhole, blister

• APPLICATION

*Values given are not intended to be used in specific preparation

Component Properties

Color	See Isotec Color Chart
Viscosity - ASTM-D-2196 - 74°F	400 - 1600 cps
% Solids - by Volume	70 - 75 %
Weight per gallon	9 lbs /gal

Reactivity Profile

Pot Life - 100g	60 - 90 Minutes
Gardner Dry Time - ASTM D5895 - 8 mil, 23°C/50% Humidity	16 - 20 Hours
Full Cure	5 - 7 Days
Coverage Area	115 - 125 sq. ft/gal

Typical Physical Properties

Hardness - ASTM D2240 - Shore A	95 Shore A
Tear Strength - ASTM D624, Die C	300 pli
Tensile Modulus - ASTM D412	3000 psi
Elongation - ASTM D412	200 - 250 %
VOC	255 g/L

Apply material evenly over the entire surface. Typical application is to roll North / South and back-roll East / West. Continue coating application to minimize lines or streaking.

- **RECOAT**

If more than one coat is needed depending on the job specification and requirement, it is imperative that the recoating be done within 48 hours or earlier to obtain proper adhesion between coats. If more than 48 hours pass between coats, reprime the surface with Isotec's primer before proceeding.

- **CURING**

Cure time will vary depending on temperature and humidity. At 75°F and 50% relative humidity, allow each coat to cure 16 hours between each coat. Uncured material is sensitive to heat and moisture. Higher temperature and/or high humidity will accelerate the cure time. Typically light pedestrian traffic can be allowed onto the coating after curing for approximately 24 hours, and at least 72 hours before permitting heavy pedestrian traffic on to the finished surface.

- **EQUIPMENT CLEANUP**

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

- **LOW TEMPERATURES:**

Low temperatures slow down the curing of moisture cure polyurethanes. This can be a benefit as the working life of the product is prolonged, but it also means that projects will take longer to complete. Re-coat times may be affected leading to delays in completing the project. Final curing time is also affected. A floor that under normal conditions could be handed over to the client after 3 days may require several more days.

Viscosity of the product is also affected. Moisture cure polyurethanes do not flow as nicely when the temperature drops. As a result, your moisture cure polyurethanes that is meant to be self-leveling may not actually level.

When working in low temperatures, increased humidity in the atmosphere may also affect your floor. In cold temperatures the dew point tends to be closer to the actual room temperature thus leading to increased relative humidity. As a result, you may get moisture settling on the uncured moisture cure polyurethanes. This may lead to blushing, reduced gloss and surface defects on your floor. As a rule of thumb, you should only apply epoxies when the actual temperature is at least 3 degrees Celsius (5 F) above the dew point.

STORAGE

This product has a shelf life of 6 months from date of manufacture in original, factory-sealed containers when stored indoors at temperature between 60F- 95F.

SAFETY

-Use only in well-ventilated areas.-Wear chemically resistant rubber gloves, safety glasses, and an apron.-Avoid prolonged or repeated contact with skin.-In case of skin contact, wipe affected area with isopropyl alcohol, followed by soap and water.-I

Date Modified

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