

TECHNICAL DATA SHEET

DESCRIPTION

[Formerly: Day-Chem Urethane (J-39)]
 Spec Cote Urethane is a two component aliphatic polyurethane coating with outstanding resistance to chemicals, abrasion and weather. Spec Cote Urethane is a color stable, non-yellowing urethane coating that has excellent impact resistance, U.V. stability and weathering properties and can be used indoors or outdoors to deliver a smooth high-gloss finish with outstanding protection.

USE

Spec Cote Urethane will adhere to properly primed concrete, brick and metal. This product is ideally suited for concrete floors as a protective sealer in warehouses, factories, chemical plants, auto service centers, shopping malls, aircraft hangers, computer rooms, laboratories or anywhere a high performance or chemical resistant floor sealer is needed. Additionally, Spec Cote Urethane is an ideal finish over epoxies, and exposed aggregate.

FEATURES

- Suitable for both indoor and outdoor applications
- Outstanding abrasion resistance
- Excellent chemical and weathering resistance
- High solids content
- U.V. stable/non-yellowing

PROPERTIES

Mix Ratio: 2:1 by volume (2 Parts A to 1 part B by volume)
 Solids: Mixed,
 (Clear) 60% by Volume
 (Colors) 70% by Volume
 Viscosity: Mixed 200-600 cps
 Pot Life: 2-4 hrs (1.5 gal.) @ 70°F (21°C)
 Tack Free Time (dry to touch): 3-5 hours
 Recoat or Topcoat: 5-9 hours @ 70°F. (21°C)
 Light Foot Traffic: 14-24 hours @ 70°F. (21°C)
 Final Cure: 5 Days @ 70°F. (21°C)
 Abrasion Resistance: Taber CS-17 Wheel 1000 gm load @ 500 cycles = 22 mg loss
 Flexibility: Passes on a 1/8" (0.3 cm) mandrel
 Impact Resistance: Direct Gardner Impact – 160 in. lb. (passed)
 Hardness Shore D: 62

VOC

Spec Cote Urethane has a VOC content of less than 400 g/L and compliant with the Federal EPA regulations.

Estimating Guide

Application of the Spec Cote Urethane at a rate of 320-500 ft²/gal. (7.84 – 12.25 m²/L) over the Spec Cote WB primer will result in a 5-3 mil (127-76 µm) thick coating. Actual coverage rates will vary depending on concrete porosity, surface profile and other job site conditions.

Packaging

Color	3 Gallon 11.35 liters	15 Gallon 56.78 liters
Clear	308855	308869
Lt Gray	308856	308870
Med Gray	308857	308871
Dark Gray	308858	308872
White	308859	308873
Off White	308860	308874
Tile Red	308861	308875
Beige	308862	308876
Tan	308863	308877
Brown	308864	308878
Lt Blue	308865	308879
Blue	308866	308880
Safety Yellow	308867	308881
Safety Red	308868	308900

COLOR

5-7 days lead time required on: Light Gray, Medium Gray
 Clear Standard Nonstock Colors: Dark Gray, Off White, Tile Red, Beige, Tan, Brown, Lt. Blue & Blue

Customer responsible for up to 10% overrun.

STORAGE

Spec Cote Urethane should be stored in a dry temperature controlled environment between 60°F to 90°F (15.6°C to 32.2°C). Shelf life is one year if cans are unopened and undamaged. Low storage temperatures or significant temperature fluctuations may cause product to crystallize.

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Surface Preparation:

Concrete floor should be sound, clean and dry and free of oil, dirt, grease, paint, laitance, and the typical membrane forming curing compounds. The concrete should be at least 28 days old. Floors should be mechanically prepared i.e., shotblast, sandblast, to result in an International Concrete Repair Institute (ICRI) Concrete Surface Profile (CSP) of between CSP #1-2, or the texture of medium grit sandpaper, to ensure proper adhesion. If oils or grease are present chemical degreasers should be used to thoroughly degrease concrete before shotblasting.

Priming:

Prior to applying the Spec Cote Urethane, a single coat of Spec Cote WB should be applied as a primer in accord with the directions of that products respective technical data sheet. Wait until the Spec Cote WB has dried to the touch before applying the Spec Cote Urethane. Do not exceed 16 hours between coats of primer and Spec Cote Urethane

Mixing

Stir each component separately before mixing them together. Pour two parts of the stirred Part A resin into an appropriately sized mixing container then add one part of the stirred Part B and mix thoroughly for three minutes with a low speed (<400 rpm) drill equipped with a mixing paddle or "Jiffy Mixer". Mix until completely streak free and uniform in color and consistency. Avoid entrapping, or introducing air into the mix.

Placement:

Surface, ambient and material temperature is recommended between 45°F (7.2°C) and 90°F (32.2°C) with a relative humidity below 90%. To maximize the working time of the mixed material, immediately pour the mixed material onto the floor to be coated. A notched trowel or squeegee can be used to uniformly spread the epoxy on the surface. Immediately back roll with a 1/4 - 3/8 inch phenolic core roller to even out the surface. Avoid over-rolling or over-working the material. Two coats are recommended for optimum performance. The second coat can be applied when the first coat is completely dry and tack free, but must be applied within 16 hours to achieve adequate adhesion and bond between coats to avoid additional surface preparation. Before recoating or top coating, check for the presence of epoxy blush (a whitish, greasy film or de-glossing). If a blush is present, remove by standard detergent and water cleaning prior to top coating. Applications on porous concrete surfaces may result in small bubbles forming in the prime coat. This is due to air within the concrete being displaced by the coating, commonly referred to as out-gassing. If this occurs, use an air-release roller prior to the coating becoming tack free, or buff the base coat with screen wire or an abrasive pad prior to application of the second coat.

CLEAN UP

Use ketone solvents.

LIMITATIONS**FOR PROFESSIONAL USE ONLY**

New concrete must be at least 28 days old.
Do not apply over moving joints or cracks due to the potential for reflective cracking
Colors or clarity may be affected by high humidity, low temperatures or chemical exposure.
Moisture Vapor Emission Rate should be no more than 3 lbs according to ASTM F-1869.
Do not use Spec Cote Urethane Clear outside, use only colors.
Concrete must be above the ambient dew point temperature.
Spec Cote Urethane is a vapor barrier and should not be applied to surfaces exhibiting moisture vapor transmission.
Do not use for on-grade concrete slabs unless a vapor barrier was used and the slab will not be subjected to freeze/thaw cycles.
Colors may vary slightly from batch to batch, therefore try to use product from the same batch for an entire project.
Restrict the use of the floor to light traffic and non-harsh chemicals until coating has reached full cure.

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PRECAUTIONS**READ SDS PRIOR TO USING PRODUCT**

- Use protection (goggles, safety glasses and/or face shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed.
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements
- Cured epoxy resins are innocuous

MANUFACTURER

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WARRANTY

Dayton Superior Corporation ("Dayton") warrants for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. **THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.**

Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.