

SPEC COTE WB™

HIGH PERFORMANCE WATER-BASED EPOXY COATING

PRODUCT DESCRIPTION

Spec Cote WB is a two component water based high performance, VOC compliant interior floor coating. Spec Cote WB has good chemical resistance and color retention with a high gloss finish. It is designed not only for durability, but also for ease-of-application and for easy recoating. Spec Cote WB combination of safety, ease-of-use and performance makes it an attractive alternative to all available solvent-based products. Spec Cote WB represents state-of-the-art technology in concrete floor care systems.

USE

Spec Cote WB is an excellent stand alone sealer for concrete floor applications when applied in two coats, or as a primer for Spec Cote 100, Spec Cote 100 Clear, Spec Cote CR, and the Spec Cote Urethane topcoats where chemical and abrasion resistance are important. Spec Cote WB will resist the chemical attack of many solvents, oils, and gasoline.

Ideal for applications requiring a safe-to-use V.O.C. compliant product that does not contain solvents with a strong objectionable odor. Spec Cote WB is ideal for concrete floors in factories, warehouses, schools, industrial plants, hospitals and malls. Spec Cote WB can be used on concrete, and steel.

BENEFITS

- Water-based/high solids content
- Low odor and non-flammable
- Easy clean-up with soap and water
- Easy to recoat, no extensive surface preparations
- Excellent chemical and abrasion resistance
- High gloss

APPLICABLE STANDARDS

Mix Ratio by Volume - 4 Parts of A to 1 Part of B (Approximately)

Pot Life – 1- 1/12 hours (1 gallon) @ 70°F. (21°C)

Viscosity – (mixed) 900-1,200 cps (colors); 400-900 cps (clear) typical

Recoat to topcoat – 1-2 hours minimum – 16 hours maximum

Approximate Coverage: 230–320 ft² /gal (5.63 – 7.84m²/L).

Percent Solids by Volume: Colors - 41%; Clear - 36%, +, - 2%

Abrasion Resistance - Taber Abrasor, CS-1 7

Wheel - 1000 Gram Load 54 mg loss in 500 cycles

Flexibility - passes on a 1/8" mandrel

Adhesion - No delamination at 425 psi with an Elcometer Adhesion Device. (the concrete failed.)

Gloss – 40-80 at 60° (Erichsen Gloss meter)

Gardner Variable Impactor – 50 inch pounds direct impact (passed)

Density - 8.45 to 10.3 (3.8 – 4.6 kg) pounds per gal when mixed depending upon color.

CHEMICAL AND SOLVENT RESISTANCE

Acetic Acid 5% R	Nitric Acid 5% R
Acetic Acid 10% N	Nitric Acid 30% N
Ammonia R	Phosphoric Acid 30% R
Battery Acid R	Sulfuric Acid 10% R
Beer R	Sulfuric Acid 30% N
Brake Fluid R	Sodium Hydroxide 10% R
Ethylene Glycol R	Sodium Hydroxide 50% R
Gasoline R	Skydrol R
Hydrochloric Acid 10% R	Trichloroethylene R
Hydrochloric Acid 30 % R	Xylene R
Methyl Ethyl Ketone N	

R- Recommended for short periods of time (chemical spills must be cleaned up)

N- Not recommended

APPLICATION

Surface Preparation

Concrete floor should be sound clean and dry and free of oil, dirt, grease, paint, laitance, and the typical

Refer to www.daytonsuperior.com for latest Technical Data Sheet and MSDS
7777 Washington Village Dr., Suite 130, Dayton OH 45459
Customer Service: (888) 977-9600
Technical Assistance: (866) 329-8724

SPEC COTE WB™

CONTINUED

membrane forming curing compounds. The concrete should be at least 21 to 28 days old. Floors should be mechanically prepared i.e., shotblast, sandblast, to result in a Concrete Surface Profile (CSP) of between an International Concrete Repair Institute (ICRI) 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. The floor temperature should be between 55°F (13°C) and 90°F (32°C).

MIXING

The Spec Cote WB is supplied in a pre-package unit. Mix only entire units, do not split units. Condition the temperature of the Spec Cote WB to 65 – 85°F (18.3-29.4° C) prior to the time of mixing. Premix each component thoroughly then mix entire contents of one of each Parts A and B (4:1 ratio) together by stirring or using low speed mixing paddle or “Jiffy-Mixer” for at least 2-3 minutes and until completely streak free and a uniform color and consistency. Avoid high speed mixing equipment (>400 rpm) that will whip air into the epoxy.

APPLICATION

Apply in uniform, even applications. Do not dilute product. Concrete must be at least 21 days old. Two coats are recommended when being used as a stand alone coating, and 1 coat if used as a primer. Additional (1.29 -3.18 m²/L) coats can be applied for increased protection and longer life. The recommended coverage rate is 230 – 320 sq. ft. per gallon (5.63 – 7.84m²/L). Application air temperature is recommended between 55°F (13°C) and 90°F (32°C) with a relative humidity below 75%. To maximize the working time of the mixed epoxy, immediately pour the mixed material onto the floor to be coated. A squeegee can be used to uniformly spread the epoxy on the surface. Immediately back roll with a ¼ - 3/8 inch Phenolic core roller to even out the surface. Avoid over-rolling or over-working the material. Do not exceed the minimum pot life when rolling. 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 base 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.

To provide a skid resistant surface, a base coat of Spec Cote WB should be applied and clean dry aggregate (silica sand) broadcast on the tacky base coat to the desired texture finish. Once the base coat has cured, broom away any loose aggregate and apply a thin topcoat of Spec Cote WB to encapsulate and seal the aggregate.

CLEAN UP

For tools and equipment, use warm, soapy water.

WASTE DISPOSAL

Dispose of waste material and empty packaging in accordance with all Federal, State and Local requirements. Refer to the product’s MSDS for further information.

ESTIMATED COVERAGE

An application rate of approximately 230–320 sq. ft. per gallon (5.63 – 7.84m²/L). will result in a 6-5 mil (152 -127 µm) thick coating. Two coats are recommended for optimal performance when Spec Cote WB is used as a stand alone coating. Spec Cote WB is a recommended primer for Spec Cote Urethane.

PACKAGING

2 gal. (7.5L) Units
5 gal. (18.9L) Units

STORAGE

Spec Cote WB should be stored in a dry temperature controlled environment between 50°F to 90°F (10°C to 32°C). Shelf life is one year if cans are unopened and undamaged.



Refer to www.daytonsuperior.com for latest Technical Data Sheet and MSDS
7777 Washington Village Dr., Suite 130, Dayton OH 45459
Customer Service: (888) 977-9600
Technical Assistance: (866) 329-8724

4/29/08 • For Commercial/Industrial Use Only • Page 2 of 3

SPEC COTE WB™

CONTINUED

COLOR

Light Gray, Medium Gray, & Clear Standard Non-stock Colors: Clear, Dark Gray, Off White, Tile Red, Beige, Tan, Brown, & Lt. Blue, Blue, Green (5-7 days lead time required)
Custom Colors and Safety Colors (Yellow and Red) available: Customer responsible for up to 10% overrun

LIMITATIONS

New concrete must be at least 21 days old. Temperature of the substrate must be above 50°F (10°C). Concrete must be above the ambient dew point temperature. Do not apply to exterior slabs on grade. Spec Cote WB is a vapor barrier and should not be applied to surfaces exhibiting moisture vapor transmission. Exposure to sunlight or other UV sources such as sodium vapor lighting can lead to discoloration of the coating. Clear aliphatic urethane topcoats such as Spec Cote Urethane reduce the UV color change effects. 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.

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.

PRECAUTIONS

DOT Classification: Part A and Part B, Not Regulated

Component A – Prolonged or repeated exposure may cause eye/ skin irritation. If contact occurs, wash immediately and seek medical help as needed. Wear protective clothing, gloves and goggles.

Component B – Avoid skin and eye contact. Contact with skin may cause severe burns. 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. Wear protective clothing, gloves, and goggles. This product may be a strong sensitizer. Avoid inhalation of vapors. Use safety glasses and wear protective rubber gloves. Read MSDS before using product. Use with adequate ventilation. Keep out of the reach of children. Use a NOISH approved respirator, when necessary. Do not take internally. In case of ingestion, CALL A PHYSICIAN immediately. DO NOT induce vomiting.

MANUFACTURER

Dayton Superior Corporation
7777 Washington Village Dr., Ste. 130
Dayton, OH 45459
Customer Service: 877-977-9600
Technical Services: 866-329-8724
Website: www.daytonsuperior.com

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.

LIMITATION OF LIABILITY

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.

Refer to www.daytonsuperior.com for latest Technical Data Sheet and MSDS
7777 Washington Village Dr., Suite 130, Dayton OH 45459
Customer Service: (888) 977-9600
Technical Assistance: (866) 329-8724

4/29/08 • For Commercial/Industrial Use Only • Page 3 of 3

11-9