DC 1200

2 Component Product

Technical Data Sheet

PRODUCT DESCRIPTION

DC 1200 is a clear, 100% solids, two component epoxy resin coating system, specifically formulated as a clear topcoat over pigmented or decorative flooring systems. It is formulated with clear transparent resins and hardeners, rendering a coating which highlights the flooring beneath it. This product produces a gloss finish. Pigment can be added for a superior UV receiving coat for colored flakes or aggregate.

SUGGESTED USES

Use primarily as a base coat, final, or intermediate clear sealer.

HIGHLIGHTS

- Excellent clarity
- Extremely low odor
- High build application
- Excellent impact and abrasion resistance
- Resists staining from cleaning and industrial chemicals
- Complies with VOC regulations for industrial maintenance coatings in the OTC and CA*
  (*excluding SCAQMD when thinned to maximum)

MIX RATIO

- 3 Part A : 2 Part B by volume

PACKAGING

- 8.32-gallon kit
- Part A: 4.98 gal (5-gallon pail)
- Part B: 3.32 gal (5-gallon pail)

SHELF LIFE AND STORAGE

- 1 year from date of manufacture (un-opened)
- Materials should be stored in un-opened containers between 65°F (18°C) and 78°F (26°C) and at or below 50% RH

RECOMMENDED APPLICATION RATE

10-20 mils

LIMITATIONS

Contamination and surface defects: If contaminates including oil, silicone, mold release agents and/or other materials are present, resin systems may fish-eye or crawl away from the surface. All surface contaminates should be removed with a suitable detergent prior to application. Solvent cleaning of silicone based contaminates is NOT RECOMMENDED. Please contact Technical Service for additional recommendations. DC 1200 may amber slightly over time from UV exposure. CBT can recommend a UV protective coating that can enhance UV stability.

Material Properties*	Result	Test Method
Flash Point	≥215 °F (102°C)	ASTM D3278
Volume Solids (mixed)	100% 16 x 10-6 in/in; °F	ASTM D2369
Mixed Viscosity	450-700 cPs	ASTM D2196
Dry Time	Tack Free 8-10 hr Dry 10-12 hr Full Cure 7 days	ASTM D5895
VOC-Volatile Organic Compound	0 g/l clear	ASTM D3960

Cured Properties*	Result	Test Method
Abrasion Resistance Tabor CS-17, mg loss/1000 cycles/1000g mass	82 mg	ASTM D4060
Coefficient if Friction- COF James Test	0.55 0.65 (w/NS-36)	ASTM D2047
Tensile Strength	10,200 psi	ASTM D2370
Adhesion to Concrete	350 psi concrete failure	ASTM D4541
Impact	60 in. lbs Direct & Reverse	ASTM D2794
Hardness (Pencil)	H	ASTM D3363
Dry Film Thickness	15 mils	at 15 mils WFT

*Properties and results are based on laboratory testing at 72°F (22°C) %50 RH, theoretical calculations and estimates. Typical properties, as stated, are to be considered as representative of current production and should not be treated as specifications.

INSPECTION AND APPLICATION

Follow precautions and instructions prior to installation.

SUBSTRATE

The substrate must be free of curing membranes, silicate surface hardener, paint, or sealer and be structurally sound. If you suspect concrete has been treated or sealed, proceed with complete removal process. Consult your CBT representative for further instruction if silicate hardeners or membranes have been utilized.

MOISTURE
Moisture and moisture vapor transmission rates are dynamic in nature and may change over time. Initial testing does not guarantee future results. If the relative humidity of the concrete substrate is over 75% (using ASTM F2170), CBT must be consulted and issue a written moisture mitigation recommendation prior to product use.

READ SAFETY DATA SHEET FOR SAFETY AND PRECAUTIONS. USE PRODUCT AS DIRECTED FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

VAPOR/CONTAMINATION
Testing for MVT does not guarantee against future problems. If there is no known vapor barrier or it is inadequate, there is a risk of bond failure. Other factors including the migration of oils, chemicals, excessive salts or Alkali Silica Reaction (ASR) from the concrete may also elevate the risk of adhesion difficulties. Consult your CBT representative for approved mitigation treatments.

TEMPERATURE AND HUMIDITY
During application and cure of coating, substrate temperature, material temperature, and room conditions must be maintained between 65°F (18° C) and 90°F (32°C). Relative Humidity (RH) should be limited to 30-80%. DO NOT apply coatings unless the surface temperature is more than five degree over dew point.

APPLICATION EQUIPMENT
- Use equipment/clothing as called for in Safety Data Sheet Jiffy® Mixer Blade model ES
- Clean container for mixing material
- Low speed high torque drill motor
- High quality short nap roller covers- $^{1}/_{4}$ - $^{3}/_{8}$ " nap
- Application Squeegee
- Graco M2K Plural component Pump for spray applications

PREPARATION
Surface dirt, grease, oil and contaminates must be removed by detergent, scrubbing and rinsing with clean (clear) water.

JOINTS
All non-moving joints (control joints) can be filled with a rigid or semi-rigid joint compound. Construction joints may be filled with semi-rigid joint filler and might need to be re-built and re-cut depending on conditions. Isolation or expansion joints must be filled with a flexible material designed for expansion and should not be coated over.

MIXING
In bulk packaging containers such as 5-gallon and drums, pre-mix the Part A prior to in field metering. Mix ratio is 3 Part A to 2 Part B by volume. Mix both components together for 2-3 minutes with a Jiffy® ES mix blade attached to a slow speed drill. Mix only enough material at one time that can be applied without exceeding pot life. Once mixed, it can not be resealed for later use.

APPLICATION
Apply to floor surface using a notched or flat squeegee depending on desired thickness. Material sitting in pail longer than five minutes will result in increased viscosity and reduce leveling properties. Back roll and spread evenly to wet coating using a $^{1}/_{4}$ - $^{3}/_{16}$" inch nap non-shed roller. Care should be taken to not over roll the coating introducing air to the surface. For spray applications, a Graco M2K Plural Component Pump can be used to spray desired mil thickness.

RECOAT
Only topcoat with CBT urethanes or epoxies, and within 24 hours at 70- 75F 30% RH. If the re-coat window has expired, the prior cured coating surface must be sanded with 100 grit sandpaper or sanding screen installed on a swing-type floor buffer. Sand to a uniform dulled surface. Remove all sanding debris with a vacuum and damp mop. Surface must be dry before coating.

CURING
Allow coating to cure for a minimum of 24 hours after application, at 75°F (24°C) and 50% RH before use (light traffic only), allow more time for low temperatures and higher humidity or for heavier traffic. Full coating properties may take up to 7 days to develop.

TECHNICAL SUPPORT
Contact Coatings and Bindings technical support.

DISPOSAL
Dispose in accordance with federal, state, and local regulations.

READ SAFETY DATA SHEET FOR SAFETY AND PRECAUTIONS. USE PRODUCT AS DIRECTED FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

MAINTENANCE GUIDELINES
Allow floor coating to cure at least one week before cleaning by mechanical means (IE: sweeper, scrubber, disc buffer). Increased life of the floor will be seen with proper maintenance and will help maintain a fresh appearance of your new CBT floor. Regularly sweep to avoid ground in dirt and grit which can quickly dull the finish, decreasing the life of the coating. Spills should be removed quickly as certain chemicals may stain and can permanently damage the finish. Only soft nylon brushes or white pads should be used on your new floor coating. Premature loss of gloss can be caused by hard abrasive bristle Poly- propylene (Tynex®) brushes.

CAUTION
Heavy objects dragged across the surface will scratch all floor coatings. Avoid gouging or scratching the surface. Pointed items or heavy items dropped on the floor may cause chipping or concrete pop out damage. **Repair gouges, chip outs, and scratches as soon as possible to prevent moisture and chemical under cutting and permanent damage to the floor coating.** Plasticizer migration from rubber tires can permanently stain the floor coating. If a rubber tire is planned to set on the floor for a long period of time, place a piece of acrylic sheet between the tire and the floor to pre- vent tire staining. Rubber burns from quick stops and starts from lift trucks can heat the coating to its softening point causing permanent damage and marking.

WARRANTY AND LIMITATION OF LIABILITY

CBT warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed, and applied in accordance with recommendations of CBT. If any product fails to meet this warranty, the liability of CBT will be limited to replacement of any non-conforming material if written notice containing full details of the non-conformity is given to CBT within (1) one year of delivery of materials. CBT may in its discretion refund the price received by CBT in lieu of replacing the material. CBT does not authorize anyone on its behalf to make any written or oral statements which in any way alter CBT's warranty or installation and storage information or instructions in its product literature or on its packaging labels. CBT reserves the right to inspect the non-conforming material prior to replacement. CBT MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES AND DISCLAIMS THE SAME, INCLUDING, WITHOUT LIMITATION, FAILURE OF THE PRODUCT DUE TO ACTS OF GOD, FLOODING, EXTREME OR ABNORMAL TEMPERATURES, HUMIDITY AND MOSITURE, STRUCTURAL CONDITIONS, SITE PREPARATION AND CONDITIONS, ACCIDENTS, DAMAGE CAUSED BY INSTALLATION OF MACHINERY, EQUIPMENT OR FIXTURES WITHOUT ADEQUATE FLOOR PROTECTION OR WITHOUT ADEQUATE TIME FOR CURING, FAILURE TO COMPLY WITH CONDITIONS OF USAGE, VANDALISM, NEGLIGENT OR INTENTIONAL ACTS OF THIRD PARTIES OR OTHER CASUALTIES. Any installation of CBT products which fails to conform to such installation instructions or the “Conditions of Usage” shall void this warranty.

CONDITIONS OF USAGE

Installation of all products purchased must be by professional installers periodically published by CBT or otherwise approved by CBT in writing. Modification to any of CBT’s products voids the warranty. The installer shall maintain a written contemporaneous record of field conditions (including, without limitation, surface and atmospheric conditions, usage rates, and lot numbers of products installed). CBT reserves the right of inspection of any installed product, installation and maintenance records and records of field conditions and may conduct additional testing as is reasonably required to investigate any warranty claims. Warranty shall only apply for products or materials that have been paid for in full. Moisture Vapor Transmission (MVT) and ASR (Alkali Silica Reaction) Disclaimer and Exclusion: Although rare, some floors at or below grade level are sometimes subjected to saturation by moisture from beneath the concrete floor slab. This moisture can travel through the concrete and collect between floor toppings creating the potential for delaminating from hydrostatic pressure and or ASR. Conditions contributing to this include heavy rainfall, broken CBT’s, excess hydration within fresh concrete, and other factors or defective and old concrete. These factors are difficult, if not impossible to predict. CBT recommends testing for MVT and/or the presence of ASR in the concrete substrate prior to applying any polymer floor topping. The recommended test method for MVT is ASTM F 2170-11. ASR can be predicted by a higher than normal pH within the concrete. If high pH should be detected, it is recommended a lab test for ASR. If and when delamination of the floor occurs because of a moisture condition that exists beneath or in the concrete slab beyond the capacity of the individual product installed or failure of the concrete due to ASR, this Limited Warranty does not extend to such delaminating or topping failure. This writing constitutes the sole and only agreement of warranty relating to CBT products.