



INTÉGRITÉ COATINGS BASECOAT

Intégrité Coatings Basecoat™ is a single component, 100% solids, aromatic Polyurea that has excellent adhesion properties to a variety of substrates. Due to its unique chemical make-up and manufacturing process, this coating exhibits great wetting properties while offering a virtually unlimited pot-life. Low odor and minimal VOC content allow for interior applications on projects such as retail environments, food and grocery stores, hospitals, kitchens and restaurants. The extended open times of the Intégrité Coatings Basecoat make it suitable for decorative aggregate broadcasting and results in a perfect broadcast every time, even on vertical surfaces. The inherent flexibility characteristics of polyurea allow the primer to expand and contract with the natural movement of the concrete, therefore reducing visible cracks and eliminating delamination concerns. The Intégrité Coatings Basecoat is customizable using **Intégrité Coatings Colour Shots** (14 oz.) to match any color required and will provide true opacity during thin mil applications. Ease of use and extreme durability make this coating the optimal choice for use on all projects, including Commercial, Industrial, and Residential applications.

DETERMINE THE APPLICATION SYSTEM

The Intégrité Coatings Basecoat is a very versatile coating that can be used for creating a wide variety of floor finishes. Depending on what the intended final use of the floor is, the application techniques and coating thickness can change. Below are a few of the standard flooring options that will begin with the installation of the Intégrité Coatings Basecoat.

1. **SOLID COLOR FLOORING (STANDARD TAN OR GRAY)**
2. **DECORATIVE FULL BROADCAST CHIP SYSTEMS**
3. **DECORATIVE SINGLE BROADCAST QUARTZ SYSTEMS**
4. **DECORATIVE DOUBLE BROADCAST QUARTZ SYSTEMS**

THE APPLICATION OF EACH TYPE OF SYSTEM IS VERY EASY TO COMPLETE, BUT THE DETAILS ARE WHAT WILL “MAKE OR BREAK” THE OVERALL APPEARANCE. FOLLOW THE TIPS BELOW TO EFFECTIVELY INSTALL THE INTÉGRITÉ COATINGS BASECOAT.

- ❖ Moisture testing needs to be completed before the installation of any coating systems. Reference the **CONCRETE PREPARATION** section of this manual for guidelines and requirements.
- ❖ The floor preparation will be the same as for any other type of coating to include grinding using diamond tooling, edge grinding, crack repair, spall repair, thorough vacuuming, leaf blowing (when possible) and an overall thorough cleaning of the floor prior to coating. This is the most important step in achieving high quality finishes.
- ❖ This coating system is thin mil and will have minimal to zero “hiding power” – meaning any imperfections in the concrete will be exaggerated by the high gloss finish and uniform coloration. Heavily damaged floors will need to be prepared using **Intégrité Coatings Fortification Formula** to near perfect condition before applying the **Intégrité Coatings Basecoat** and subsequent coatings.
- ❖ Heavily damaged floors can be handled another way – installing a self-leveling layer of **Intégrité Coatings Moisture Stopping Primer** to the floor first to bring it back to a suitable substrate for coating. This may require extra preparation methods such as shot blasting or abrasive grinding to create a profile for adhesion. Contact your local Intégrité Coatings Representative for more information on these techniques. Always reference the appropriate installation pages for instructions on how to apply this coating.

MIXING INSTRUCTIONS

- ❖ Remove the tear strip and open the seal on the pouch of the **Intégrité Coatings Basecoat**. Add the **ENTIRE** contents of the **BASECOAT STABILIZER** and use a drill with paddle style mixer to spin the material for at least 1 minute prior to use. Re-seal the seal immediately after spinning so that the product does not get contaminated. This material is highly moisture sensitive so make sure when mixing not to introduce air by over-agitating. It may be necessary to clean the seal to achieve a proper air-tight seal after use.
- ❖ **ALWAYS STORE MATERIAL OUT OF DIRECT SUNLIGHT, AND IN ACCORDANCE WITH THE WRITTEN INSTRUCTIONS ON THE POUCH. STORE AWAY FROM MOISTURE, WATER, AND HIGH HEAT.**



- ❖ This pre-measured quantity of material is to be used in conjunction with an **Intégrité Coatings Tint Shot** (14 oz.) to create a “kit” of tinted material ready for use. This amount of mixed material will cover roughly **350-400 Square Feet** of diamond ground concrete. The coverage may vary based on concrete porosity and application technique.
- ❖ **DO NOT ADD THE INTÉGRITÉ COATINGS COLOUR SHOT TO THE POUCH OF INTÉGRITÉ COATINGS BASECOAT UNTIL THE APPLICATION IS ABOUT TO BEGIN.**
- ❖ Once combined, spin the material thoroughly for at least 1 minute using a drill and paddle style mixer. Blend until uniform in color throughout. Remove any cured product or contaminants before using the coating on the floor.

SOLID COLOR FLOORING (TAN OR GREY) / DECORATIVE FULL BROADCAST CHIP SYSTEMS (OPTIONS 1&2)

To install a solid color or decorative full broadcast chip floor, always make sure to have the correct amounts of decorative chip available and ready to install before applying any coatings to the floor. This application will typically be a two-man installation where one installer will cut in the edges with a brush while the other roll applies the material on the floor. Depending on the size of the project, additional installers may be required to stay efficient and provide a uniform finish.

THIS COATING MUST BE APPLIED THIN AT 300-400 SF/GAL. MATERIAL WILL NOT CURE PROPERLY AND WILL OUTGAS IF BUILT UP TOO THICK.

- ❖ Pour the color tinted **Intégrité Coatings Basecoat** into an 18” roller pan, retaining a small amount to pour into a “cut bucket” for cutting in edges with a brush. Begin by having one installer cut in the edges in the first area to be coated, remembering to apply the coating at the specified spread rate. The coating will not have to be applied thick to gain true opacity.
 - ❖ **EDGING CAN ALSO BE DONE USING 4” OR 9” ROLLERS (THE FRAMES ONLY HAVE A SUPPORT ON ONE SIDE MAKING IT EASY TO RUN THEM ALONG A WALL AND COAT RIGHT UP TO THE EDGE) BY POURING A SMALL AMOUNT ON THE FLOOR, SOAKING IT UP WITH THE ROLLER AND APPLYING A THIN AND EVEN COAT ALONG THE PERIMETER.**
 - ❖ **IF USING A ROLLER TO CUT IN THE EDGES, ALWAYS REMEMBER TO APPLY TAPE TO THE WALLS AND ANY OTHER SURFACES NOT TO RECEIVE COATINGS. REMOVE THE TAPE PROMPTLY AFTER COATING.**
- ❖ **OPTIONAL** – The **Intégrité Coatings Basecoat** can also be poured on the floor in ribbons and spread using a flat squeegee to expedite the installation. This will typically be used on larger scale jobs but can also be helpful for smaller residential applications. Once a section of material has been spread on the floor, saturate a roller then roll and crossroll the material to lay it off.
- ❖ Fully saturate an 18” 3/8 nap roller with product and spread the material on the floor using an M and W pattern. Work the coating until an opaque color is seen and it is uniform in thickness. Each dip of the roller should cover about a 4’ x 4’ area. Re-dip the roller and continue this process until a 4’ strip is completed across the floor. Repeat the process of rolling 4’ strips until the entire floor has been coated, always remembering to overlap the strips by at least 6”. At this point you will want to do a full length cross-roll in the opposite direction to lay the whole floor off. It is the extended pot-life of the **Intégrité Coatings Basecoat** that makes this possible.
- ❖ Roll the floor from end to end in one direction until a uniform finish is achieved. The roller should be kept on the ground during the cross rolling to limit “color flipping”.
- ❖ (OPTIONAL) Immediately broadcast decorative chips into the wet coating. Chip is broadcast out of a 5-gallon bucket by grabbing handfuls and simply tossing them up in the air. The higher the chip is thrown the better, as this will cause it to spread out and produce a more random broadcast. For a **Full Chip Floor** it is important to broadcast to the point of rejection to get the coverage required. The gloss of the coating underneath should be completely buried and the surface should look dry. Always check the floor to make sure all areas have been covered equally. Hand-pack the chip onto vertical surfaces, stairs, and curb walls to ensure full coverage.



- ❖ **IN MOST CASES YOU WILL HAVE UP TO 20 MINUTES FROM THE TIME THE INTÉGRITÉ COATINGS BASECOAT IS APPLIED TO THE FLOOR TO BROADCAST THE CHIP INTO IT. WAITING LONGER THAN THIS CAN CAUSE INSUFFICIENT CHIP COVERAGE AND INCONSISTENCIES IN THE FINISH.**
- ❖ Allow the coating to cure for at least 1-2 hours (based on temperature and humidity) before recovering the loose chips and scraping the floor. The solid color flooring option will require longer waiting times between coats. A color tinted Medici Basecoat application will finish the system once the basecoat has cured.
- ❖ **COLDER TEMPERATURES WILL SLOW THE CURE TIME, WHILE WARMER TEMPERATURES AND WILL SPEED THEM UP.**
- ❖ Test the coating for cure by pushing down on the chips with your thumb and rotating. If the chips move freely then the coating is not cured and should not be walked on to recover the chips. Wait until the coating no longer spins before moving forward with the cleanup procedure.
- ❖ Once the floor has cured, use a leaf blower to push all the loose chips into a corner for recovery. These chips are still good and can be re-used on future jobs. Best practice is to put them back in the plastic bag and box that they came in, always remembering to seal the plastic bag to avoid allowing moisture to contaminate the chip.
- ❖ The floor should then be scraped in two directions (East/West and North/South) to create the flattest floor possible. Applying minimal pressure, use a 14" steel floor scraper to knock off the high points of the chips and level the floor. Use a smaller putty knife along the edges and on vertical surfaces to complete the process.
- ❖ Use the leaf blower again to push all the chip scrapings into a corner for recovery. These chips are broken up and should **NOT BE** saved for future use.
- ❖ Thoroughly vacuum the floor or use the leaf blower again to remove any and all loose chips and debris from the floor.
- ❖ Reference the **Intégrité Coatings Topcoat** or **Intégrité Coatings Exterior Topcoat** section of the manual for guidelines and application instructions to finish the floor system.

SINGLE BROADCAST QUARTZ SYSTEMS (OPTION #2)

To install a single broadcast quartz floor, always make sure to have the correct amounts of decorative quartz available and ready to install before applying any coatings to the floor. This application will typically be a two-man installation where one installer will cut in the edges with a brush while the other roll applies the material on the floor. Depending on the size of the project, additional installers may be required to stay efficient and provide a uniform finish. Also, preparation of the concrete has to be "on point" as the single broadcast quartz floor has minimal hiding power. Any and all concrete flaws will show through this system, so make sure to be thorough when filling cracks, spalls, and damaged areas. Take caution with the grinding equipment as gauges and swirl marks can also show through the finished floor.

THIS COATING MUST BE APPLIED THIN AT 300-350 SF/GAL. MATERIAL WILL NOT CURE PROPERLY AND WILL OUTGAS IF BUILT UP TOO THICK, BUT WILL NOT HOLD THE QUARTZ PROPERLY IF APPLIED TOO THIN. MAKE SURE TO ACHIEVE THIS SPREAD RATE BY PHYSICALLY MARKING OFF HOW FAR EACH GALLON SHOULD BE SPREAD.

- ❖ Pour the **Intégrité Coatings Basecoat** on the floor in an 8-10" ribbon and spread it around by pushing a flat squeegee. Apply light pressure to the blade so as to leave material behind – do not apply heavy pressure or there will be nothing left to back roll. Retain a small amount to pour into a "cut bucket" for cutting in edges with a brush. Begin by having one installer cut in the edges in the first area to be coated, remembering to apply the coating at the specified spread rate. The coating will not have to be applied thick to gain true opacity.
- ❖ **EDGING CAN ALSO BE DONE USING 4" OR 9" ROLLERS (THE FRAMES ONLY HAVE A SUPPORT ON ONE SIDE MAKING IT EASY TO RUN THEM ALONG A WALL AND COAT RIGHT UP TO THE EDGE) BY POURING A SMALL AMOUNT ON THE FLOOR, SOAKING IT UP WITH THE ROLLER AND APPLYING A THIN AND EVEN COAT ALONG THE PERIMETER.**
- ❖ **IF USING A ROLLER TO CUT IN THE EDGES, ALWAYS REMEMBER TO APPLY TAPE TO THE WALLS AND ANY OTHER SURFACES NOT TO RECEIVE COATINGS. REMOVE THE TAPE PROMPTLY AFTER COATING.**



- ❖ Once the squeegee applicator has covered an area about 8-10 feet off the wall, the roller applicator can fully saturate an 18" 3/8 nap roller in a fresh pile of material poured on the floor and return to the start to backroll using an M and W pattern. Work the coating until an opaque color is seen and it is uniform in thickness. Each roll should cover roughly a 4' strip across the floor, and the coating should be worked over twice to ensure proper spread. Repeat the process of rolling 4' strips until the entire floor has been coated, always remembering to overlap the strips by at least 6". At this point you will want to do a full length cross-roll in the opposite direction to lay the whole floor off. It is the extended pot-life of the **Intégrité Coatings Basecoat** that makes this possible.
- ❖ Roll the floor from end to end in one direction until a uniform finish is achieved. The roller should be kept on the ground during the cross rolling to limit "color flipping".
- ❖ Immediately broadcast the decorative quartz into the wet coating. Unlike with a chip broadcast, quartz is broadcast by "shoveling" it out of a 5-gallon bucket and feathering it out to avoid creating piles. The higher the quartz is thrown the better, as this will cause it to spread out and produce a more random broadcast. For a single broadcast quartz floor it is important to broadcast to the point of rejection to get the coverage required. Always work your way backwards off the floor, and make sure there is enough quartz down to avoid having to walk in the recently broadcasted quartz to add more. The gloss of the coating underneath should be completely buried and the surface should look dry. Always check the floor to make sure all areas have been covered equally. The amount of quartz that needs to be broadcast is much more than the amount of chip used to do a full broadcast floor. Make sure to reference the spreadsheets for total quantities needed before starting.
- ❖ Allow the coating to cure for at least 1-2 hours (based on temperature and humidity) before recovering the loose quartz from the floor.
- ❖ **COLDER TEMPERATURES WILL SLOW THE CURE TIME, WHILE WARMER TEMPERATURES AND WILL SPEED THEM UP.**
- ❖ Test the coating for cure by pushing down on the quartz with your thumb and rotating. If the quartz moves freely then the coating is not cured and should not be walked on to recover the loose aggregate. Wait until the coating no longer spins before moving forward with the cleanup procedure.
- ❖ Once the floor has cured, use stiff bristled brooms to push the loose quartz into piles for recovery. This is best done with a "bouncing of the broom" technique that will recover much more than just pushing the broom normally. This quartz is still good and can be re-used on future jobs. Best practice is to put it back in the paper bag that it came in and seal the top of the bag by rolling it over and using duct tape to secure it down. Do not leave bags open for extended periods of time as they can retain moisture and affect the coating's performance.
- ❖ Thoroughly vacuum the floor or use the leaf blower again to remove any and all loose quartz and debris from the floor.
- ❖ Reference the **Intégrité Coatings Exterior Topcoat** section of the manual for guidelines and application instructions to finish the floor system.

DOUBLE BROADCAST QUARTZ SYSTEMS (OPTION #3)

To install a double broadcast quartz floor, follow the installation instructions above to broadcast the first layer of quartz, allow to cure, recover and clean the floor to prepare it for the next coat of resin to be applied. The coating used as this "intermediate coat" will be the **Intégrité Coatings Build Coat**, a two component polyurea that will be applied clear and have the ability to be built up thick enough to act as the intermediate coat in this system.

- ❖ Reference the **Intégrité Coatings Build Coat** section of the manual for guidelines and application instructions for the "intermediate coat" and additional broadcast of quartz.

UNDER NO CIRCUMSTANCES CAN THE INTÉGRITÉ COATINGS BUILD COAT BE REPLACED WITH THE INTÉGRITÉ COATINGS BASECOAT OR INTÉGRITÉ COATINGS TOPCOAT FOR THIS APPLICATION.



INTÉGRITÉ COATINGS BASECOAT

Product Description

Intégrité Coatings Basecoat™ is a single component, 100% solids, aromatic Polyurea that has excellent adhesion properties to a variety of substrates. Due to its unique chemical make-up and manufacturing process, this coating exhibits great wetting properties while offering a virtually unlimited pot-life. Low odor and minimal VOC content make it a great choice for both interior and exterior applications.

PRODUCT FEATURES

- ❖ Displays excellent adhesion characteristics to a variety of substrates / coatings.
- ❖ Emits virtually no odors and can be applied indoors with minimal disturbance to surrounding activities.
- ❖ VOC FREE
- ❖ Unlimited pot life increases the workability of the coating, providing consistent aggregate broadcasts.
- ❖ Single component means no possible mixing errors, thus eliminating the human error factor.
- ❖ 100% solids formulation.
- ❖ Versatile primer for use on both horizontal and vertical applications.
- ❖ Exhibits fast return-to-service and cure times.
- ❖ Incredible bond to prepared metals, concrete, and fiberglass.
- ❖ Maintains flexibility even in cold temperatures.

PRIMARY APPLICATIONS

- ❖ Large warehouse facilities
- ❖ Heavy traffic areas
- ❖ Aircraft hangar floors
- ❖ Maintenance facilities
- ❖ Industrial shop floors
- ❖ Commercial kitchens
- ❖ Bathrooms and Lavatories
- ❖ Chemical manufacturing plants
- ❖ Residential garages and basements
- ❖ Marine applications

TEMPERATURE

40°F - 120°F (4°C - 49°C)

Optimal installation temperature is 55°F - 90°F (13°C - 32°C). Extreme cold applications may slow the cure time.

ADHESION RESULTS

ASTM D-4541 Elcometer

| | | |
|----------------|--------------------|----------|
| Concrete | concrete failure | >500psi |
| Steel | shear failure | >2000psi |
| Wood-no primer | wood failure/shear | >400psi |

PACKAGING

Product is sold CLEAR in 1 gallon pouches (114 oz. actual)

TYPICAL PHYSICAL PROPERTIES

| | | |
|----------------------------------|-------------------------|--------|
| Tensile Strength | ASTM D412 | 5,200 |
| Compressive Strength (psi Mpa) | ASTM D695 | 11,500 |
| Elongation | ASTM D412 | 75 |
| Tear Strength (PLI) | ASTM 2240 | 740 |
| Hardness, Shore D | ASTM D2240 | 78 |
| Flexibility, 1/8" Mandrel | ASTM D1737 | Pass |
| Falling Sand Abrasion Resistance | ASTM D968 | 30 |
| *Liters sand / 1 dry mil | | |
| Abrasion Resistance | ASTM D4060 | |
| CS17-Wheel (1,000 gm Load) | 10 mg Loss / 500 cycles | |
| Viscosity at 77°F (cps) | | 425 |

TYPICAL PROCESSING PROPERTIES

| | |
|--------------------------------|---------------------------|
| Single Component - 72°F (24°C) | Tack Free-1-2 hours |
| Relative Humidity - 54% | Hard dry-3-6 hours |
| | Recoat Minimum-3 hours |
| | Recoat Maximum - 12 hours |

Coverage: 1,600 square feet, per gallon, per mil.

Recommended Coverages

| | | |
|-----------------------------|----------------|---------------|
| Primer (Ground Concrete) | 300-400 sf/gal | @4.6 mils DFT |
| Primer (Acid Wash Concrete) | 400-500 sf/gal | @3.6 mils DFT |
| Primer (Metal) | 400-700 sf/gal | @2.9 mils DFT |

VOC compliant in all 50 states and Canada

SURFACE PREPARATION

Old concrete

Sandblasting, diamond grinder w/30 grit or coarser, or water blasting is highly recommended to remove surface contaminants. Any oils or fats must be removed prior to product application. Do not apply to wet substrates. Chloride, moisture and pH levels should be checked prior to application.

New Concrete

The concrete should be allowed to cure for a minimum of 30 days unless using an Intégrité Coatings Moisture Stopping Primer. Sand blasting, diamond grinder w/30 grit or coarser or acid etching is required to remove the surface laitance that appeared during the curing process. Shot blasting is not suggested. Chloride, moisture and pH levels should be checked prior to application. Intégrité Coatings Basecoat can be used to reduce outgassing.

Aluminum, Galvanized Steel, Non-Ferrous Metals

All metals must be prepared to a near white surface that is equivalent to SSPC 10 or NACE 2. For immersion service, a 3 mil blast profile is recommended. A 2 mil profile is generally accepted. Intégrité Coatings Basecoat must be used as the adhesive primer on all metals prior to applying other coatings.

Wood

Sand entire surface to remove any burs or rough spots that may affect the finish of the coatings. Make sure all nail/screw holes and joints are detailed using either Intégrité Coatings Fast Patch or Intégrité Coatings Fortification Formula prior to coating. Cotton mesh may be used to help bridge joints in moving substrates. Primer will be the **INTÉGRITÉ COATINGS BUILD COAT**. Intégrité Coatings Basecoat is not recommended as a high build primer on wood substrates.

Existing Coatings

Cured coatings (beyond their re-coat windows) must be abraded via scuff sanding with 80-120 grit sandpaper prior to the application of Intégrité Coatings Basecoat. Wipe surface clean with a tack rag after a thorough vacuuming to perform a final cleaning.

Substrate Repairs

All spalls and cracks should be chased out and repaired to ICRI standards using Intégrité Coatings Fortification Formula. Expansion joints should be honored.

INSTALLATION RECOMMENDATIONS

Intégrité Coatings Basecoat adheres well to several sound substrates and coatings when properly prepared including but not limited to; concrete, steel, fiberglass, epoxy, urethanes, and polyureas. All surfaces should be free of loose particles, rust, voids, and spalls. It is recommended that this product be applied in a multi-directional (north, south, east and west) motion to help ensure proper coating thickness.

APPLICATION INFORMATION

Material should be pre-conditioned to a minimum of 50°F (10°C) prior to use. The material temperature must be brought to 5°F above the dew point temperature before opening and agitating the material to prevent condensation from entering the coating. Add the **ENTIRE CONTENTS** of the **BASECOAT STABILIZER** to the pouch and thoroughly mix the material using a paddle mixer and drill for a minimum of 1 minute to place the solids content evenly in suspension. Add (1) 14 oz. Colour Shot to the pouch and mix for an additional 1 minute or until a uniform color is achieved. (The volume of the Colour Shot and the tint-to-coating ratio have been pre-measured for color accuracy and opacity – make sure to add all of the material in the Colour Shot to the 1 gallon pouch of Intégrité Coatings Basecoat.) Roll or squeegee apply the material in a thin and even layer following the instructions in the installation manual. Seal all containers immediately after pouring out desired quantities. Mix and pour out only what is needed. At the end of the day apply a solvent “float” of approximately 3 ounces of MEK over the surface of the coating before resealing the pouch.

Roller

Use only phenolic core, solvent resistant, natural or synthetic fiber roller covers. ¼” to 3/8” nap are acceptable, thicker nap may cause bubbling of the coating.

Brush

Inexpensive natural fiber chip brushes are suggested – 2” to 4” width depending on the application. These will be one-time use items.

Thinner

Intégrité Coatings Basecoat can be thinned with up to 10% MEK by volume if a thinner coating is required. **DO NOT USE ANY OTHER TYPE OF SOLVENT.**

Clean Up

Use ACETONE to clean tools, etc. before product cures.

SHELF LIFE AND STORAGE

Twelve (12) months in factory delivered unopened pouches. Keep away from extreme heat, cold and moisture. Maintain at a proper storage temperature of 60-100° F. Keep out of direct sunlight and away from fire hazards. **DO NOT APPLY IN DIRECT SUNLIGHT OR WHEN TEMPERATURES ARE STEADILY RISING.**

REPAIRS AND MAINTENANCE

Re-application of the product after 12 hours of initial application requires sanding and cleaning to achieve optimum adhesion. Contact an Intégrité Coatings representative for site specific recommendations.

LEED CREDITS

Most Intégrité Coatings products contribute to LEED Credits. See our LEED Credit Bulletin for more information.

CERTIFICATIONS

VOC Compliant in all 50 states, Canada, Australia and Various Countries in Europe (National Standards – IMC)

USDA and FDA certified food safe for incidental food contact.

SHIPPING INFORMATION

| | |
|---------------------|------------------------|
| Flash Point: | 110 °C (230 °F) |
| Weight/Gallon: | 9.9 ±1.0 lbs. |
| DOT HAZARD CLASS | N / A |
| DOT PACKAGING GROUP | II |
| DOT LABEL | N / A |
| DOT SHIPPING NAME | Paint Related Material |
| DOT PLACARD | N / A |
| UN / NA NUMBER | 1263 |

SAFETY PRECAUTIONS

DANGER!! Vapor and Atomized liquids are harmful. Overexposure may cause lung damage, allergic skin reactions, or respiratory reactions. Effects may be permanent, may affect the brain or nervous system causing dizziness, headaches, or nausea. Use only in well ventilated areas, wear approved respirators when necessary. Keep out of reach of children. See MSDS for First Aid recommendations.

WARRANTY

The technical data and any other printed information furnished by Intégrité Polyurea Coatings are true and accurate to the best of our knowledge. INTÉGRITÉ COATINGS BASECOAT™ conforms to in house quality control procedures and should be considered free of defects. The data provided is believed to be reliable and is offered solely for evaluation. The use of this product is beyond the control of the seller, therefore the buyer assumes all risks of use and handling whether done in a matter that is in accordance with the provided posted directions or not. Intégrité Coatings makes no warranty; expressed or implied, of its products and shall not be liable for indirect or consequential damage in any event.

Chemical Resistance

Acetic Acid 100% RC
 Acetone R
 Ammonium Hydroxide 50% RC
 Benzene RC
 Brake Fluid RC
 Brine saturated H₂O R
 Chlorinated H₂O R
 Clorox(10%) H₂O R
 Diesel fuel RC
 Gasoline R
 Gasoline/5% MTBE R
 Gasoline/5% Methanol R
 Hydrochloric Acid 20% R
 Hydrofluoric Acid 10% RC
 Hydraulic fluid (oil) RC
 Isopropyl Alcohol R
 Jet Fuel (JP-4) R
 Lactic Acid RC
 MEK RC

Methanol R
 Methylene Chloride C
 Mineral Spirits R
 Motor Oil R
 MTBE C
 Muriatic Acid 10% R
 NaCl/H₂O 10% R
 Nitric Acid 20% RC
 Phosphoric Acid 10% RC
 Phosphoric Acid 50% NR
 Potassium Hydroxide 10% R
 Potassium Hydroxide 20% R, Dis
 Propylene Carbonate RC
 Skydrol RC
 Sodium Hydroxide 25% R
 Sodium Hydroxide 50% R, Dis
 Sodium Hypochlorite 10% R
 Sodium Bicarbonate R
 Stearic Acid R

Sugar/H₂O R
 Sulfuric Acid 10% R
 Sulfuric Acid >50% R
 Toluene R
 1, 1,1-Trichlorethane C
 Trisodium Phosphate R
 Vinegar/H₂O 5% R
 H₂O 14 days at 82° C R
 Xylene R

Chemical Resistance Key

R=recommended/little or no visible damage

RC=recommended conditional/some effect, swelling or discoloration

C=Conditional/Cracking-wash within one hour of spillage to avoid affects

NR=Not recommended

Dis=Discolorative



SINGLE BROADCAST QUARTZ FLOORING

THIS CHART REPRESENTS DECORATIVE QUARTZ THROWN TO REJECTION

| FLOOR SIZE (SF) | COVERAGE RATE (SF / LB) | AMOUNT GLUED DOWN (LBS) | AMOUNT NEEDED (LB) | BAGS OF QUARTZ (50 LBS EA) | AMOUNT RECOVERED (LB) |
|-----------------------|-------------------------------|-------------------------------|--------------------------|----------------------------------|-----------------------------|
| 100 | 2 | 50 | 75 | 1.5 | 25 |
| 150 | 2 | 75 | 113 | 2.3 | 38 |
| 200 | 2 | 100 | 150 | 3.0 | 50 |
| 250 | 2 | 125 | 188 | 3.8 | 63 |
| 300 | 2 | 150 | 225 | 4.5 | 75 |
| 350 | 2 | 175 | 263 | 5.3 | 88 |
| 400 | 2 | 200 | 300 | 6.0 | 100 |
| 450 | 2 | 225 | 338 | 6.8 | 113 |
| 500 | 2 | 250 | 375 | 7.5 | 125 |
| 550 | 2 | 275 | 413 | 8.3 | 138 |
| 600 | 2 | 300 | 450 | 9.0 | 150 |
| 650 | 2 | 325 | 488 | 9.8 | 163 |
| 700 | 2 | 350 | 525 | 10.5 | 175 |
| 750 | 2 | 375 | 563 | 11.3 | 188 |
| 800 | 2 | 400 | 600 | 12.0 | 200 |
| 850 | 2 | 425 | 638 | 12.8 | 213 |
| 900 | 2 | 450 | 675 | 13.5 | 225 |
| 950 | 2 | 475 | 713 | 14.3 | 238 |
| 1000 | 2 | 500 | 750 | 15.0 | 250 |
| 1050 | 2 | 525 | 788 | 15.8 | 263 |
| 1100 | 2 | 550 | 825 | 16.5 | 275 |
| 1150 | 2 | 575 | 863 | 17.3 | 288 |
| 1200 | 2 | 600 | 900 | 18.0 | 300 |
| 1250 | 2 | 625 | 938 | 18.8 | 313 |
| 1300 | 2 | 650 | 975 | 19.5 | 325 |
| 1350 | 2 | 675 | 1013 | 20.3 | 338 |
| 1400 | 2 | 700 | 1050 | 21.0 | 350 |

*NUMBERS ABOVE ARE CLOSE ESTIMATES, NOT EXACT QUANTITIES

RECOVERED QUARTZ SHOULD BE PUT BACK INTO BAGS AND SEALED TIGHTLY FOR FUTURE USE.

CONTAMINATED QUARTZ CAN BE FILTERED FOR RE-USE OR DISCARDED

INTÉGRITÉ POLYUREA COATINGS

3001 103rd Lane NE Blaine, MN 55449

866-765-4474 COPYRIGHT INTÉGRITÉ POLYUREA COATINGS 2011



INTÉGRITÉ COATINGS BUILD COAT

The **Intégrité Coatings Build Coat** is used as a high build coating to accept the second broadcast of quartz in a Double Broadcast Quartz Floor. The unique physical properties of the Intégrité Coatings Build Coat give it extended workability combined with fast turnaround times and return to service. Offering long "open times" (period of time that decorative aggregates will stick to and adhere in the wet coating) this product produces a perfect broadcast every time. The Intégrité Coatings Build Coat has a high solids content making it great for both interior and exterior applications. However, because this material is thicker than other coatings it is important to follow the mix charts for recommended maximum size batches.

MIXING INSTRUCTIONS

- ❖ Remove the lid from the **Part A** 1-gallon bucket and use a drill with paddle style mixer or a paint stick to spin the material for at least 1 minute prior to use. Replace the lid to keep contaminants out. Remove the lid from the **Part B** 2-gallon bucket and use a drill with a different (clean) paddle style mixer or paint stick to spin the material for at least 1 minute. Replace the lid to keep contaminants out.
- ❖ Reference the mix chart to determine quantities needed and maximum size batch to mix.
- ❖ Pour the **Intégrité Coatings Build Coat Part A** into a calibrated mixing container.
- ❖ Add the **Intégrité Coatings Build Coat Part B** to the same container keeping the materials at a **1A:2B** ratio and following the mix charts.
- ❖ **OPTIONAL** – Add up to 10% Acetone by total volume mixed to create a thinner, easier to work with coating.
- ❖ Spin the materials thoroughly for at least 1 minute using a drill and paddle style mixer before applying.

INTERMEDIATE COAT OVER A SINGLE BROADCAST QUARTZ FLOOR – FLAT SQUEEGEE APPLICATION

- ❖ Pour the mixed material onto the floor in a large ribbon about 12" wide, starting about 12" off the wall.
- ❖ Using a semi-rigid flat blade rubber squeegee, spread the material thin and even over the surface, leaving a small amount around the perimeter for an installer to follow up and spread with a brush or a small roller
- ❖ Once you have spread an area about 6-8 feet off the back wall, the other installer can begin to back-roll the material to even it out. Fully saturate the roller in a pile of material and use the **M and W pattern** to spread the coating on the floor evenly. Once a 4 foot section is coated you will want to cross roll the coating to create a uniform thickness and appearance. Start at the back wall and simply drag the roller perpendicular to your original roll. Overlap your cross-roll by about 4-6 inches and continue until the entire section is even in appearance. While one installer is rolling out the material, the other one should either be mixing another batch of material or cutting in the edges to stay ahead of the roller. Continue this process for a section of about 500 sf, or about 20-30 minutes after the coating process began before returning to the start to broadcast another layer of quartz. This process will be done in the same fashion as the first broadcast, always working your way backward off the floor.
- ❖ **CROSS-ROLLING THE APPLIED MATERIAL IS IMPERATIVE. FAILURE TO DO SO CAN RESULT IN THICK SPOTS FROM OVERLAPPING OF THE ROLLER THAT WILL HOLD MORE DECORATIVE AGGREGATE AND CHANGE THE TEXTURE OF THE FLOOR.**
- ❖ Allow the coating to cure for at least 1-2 hours (based on temperature and humidity) before recovering the loose quartz from the floor.
- ❖ **COLDER TEMPERATURES WILL SLOW THE CURE TIME, WHILE WARMER TEMPERATURES AND WILL SPEED THEM UP.**
- ❖ Test the coating for cure by pushing down on the quartz with your thumb and rotating. If the quartz moves freely then the coating is not cured and should not be walked on to recover the loose aggregate. Wait until the coating no longer spins before moving forward with the cleanup procedure.
- ❖ Once the floor has cured, use stiff bristled brooms to push the loose quartz into piles for recovery. This is best done with a "bouncing of the broom" technique that will recover much more than just pushing the broom normally. This quartz is still good and can be re-used on future jobs. Best practice is to put it back in the paper bag that it came in and seal the top of the bag by rolling it over and using duct tape to secure it down. Do not leave bags open for extended periods of time as they can retain moisture and affect the coating's performance.



- ❖ **OPTIONAL** – To decrease the amount of texture left on the floor – to make the finished floor smoother – it is the option of the installer to use a floor buffer outfitted with 80-120 grit mesh sanding pads to go over the floor and knock down any high points. This process should only be attempted once the coating has fully cured. Care must be taken by the operator to keep the machine moving and not “burn through” the quartz layer or damage the floor in any way.
- ❖ Thoroughly vacuum the floor or use the leaf blower again to remove any and all loose quartz and debris from the floor.
- ❖ Reference the **Intégrité Coatings Exterior Topcoat** section of the manual for guidelines and application instructions to finish the floor system.



INTÉGRITÉ COATINGS BUILD COAT

Product Description

Intégrité Coatings Build Coat is a two-component, 98% solids, VOC Compliant Polyurea that is used as a high build coating to accept decorative aggregate broadcasts. This coating is relatively moisture insensitive and performs well in a wide range of temperatures and climate conditions. Extended working time makes it a great choice for both residential and commercial applications.

PRODUCT FEATURES

- ❖ Displays moderate cure times with excellent adhesion characteristics to a variety of substrates / coatings.
- ❖ Can be roll applied at temperatures ranging from -20-120°F and in high humidity.
- ❖ Long "open times" allow for self leveling capabilities and increased hiding power as well as consistent broadcasts of decorative aggregate.
- ❖ Emits virtually no odors and can be applied indoors with minimal disturbance contributed to high VOC levels that are found in most epoxies and polyurethanes.
- ❖ Can be applied to vertical surfaces as a primer/basecoat or stand-alone coating.
- ❖ Easy to mix 1:2 ratio.

PRIMARY APPLICATIONS

- ❖ Wall coating over sheetrock, wood, and concrete
- ❖ Aircraft hangar floors
- ❖ Automotive shops
- ❖ Maintenance facilities
- ❖ Residential garages
- ❖ Industrial shop floors
- ❖ Pool surrounds
- ❖ Bathrooms and locker rooms
- ❖ Sidewalks and walkways
- ❖ Wastewater treatment applications
- ❖ High build systems

TEMPERATURE

-20°F - 120°F (-29°C - 49°C)

Optimal installation temperature is 50°F - 90°F (10°C - 32°C) Extreme cold applications may slow the cure time.

ADHESION RESULTS

ASTM D-4541 Elcometer

| | | |
|-----------------|--------------------|---------|
| Concrete-primer | concrete failure | >550psi |
| Wood-no primer | wood failure/shear | >400psi |

PACKAGING

Product is sold CLEAR in a 3 gallon kit (1 gallon Part A, 2 gallons Part B)

TYPICAL PHYSICAL PROPERTIES

| | | |
|---------------------------|------------|--------------|
| Tensile Strength | ASTM D412 | 3600 |
| Elongation | ASTM D412 | 198 |
| Tear Strength (PLI) | ASTM 2240 | 350 |
| Modulus of Elasticity | | 47,900 psi |
| Flexibility, 1/8" Mandrel | ASTM D1737 | Pass |
| Tabor Abrasion mg loss | ASTM D4060 | 31 |
| Impact Resistance | ASTM D2794 | 250 in. lbs. |
| | Direct | |
| Impact Resistance | ASTM D2794 | 285 in. lbs. |
| | Indirect | |
| Radiant Flux (CRF) | ASTM E 648 | 1.14 W/cm² |

TYPICAL PROCESSING PROPERTIES

| | |
|----------------------------|---------------------------|
| 1:2 Mix Ratio | 2-4 Hours - Tack Free |
| Relative Humidity-72°F-54% | Hard dry-2-4 hours |
| | Mar free-4-6 hours |
| | Recoat - 12 hours Max. |
| | Foot Traffic - 8-12 Hours |

Recommended Coverages

| | | |
|-----------------------------------|----------------|----------------|
| Intermediate Coat | 100-125 sf/gal | @13.6 mils DFT |
| -Double Broadcast Quartz Flooring | | |
| Over Tile | 80-120 sf/gal | @15.6 mils DFT |

VOC compliant in all 50 states and Canada

SURFACE PREPARATION

Old concrete

Sandblasting, diamond grinder w/30 grit or coarser, or water blasting is highly recommended to remove surface contaminants. Any oils or fats must be removed prior to product application. Do not apply to wet substrates. Chloride, moisture and pH levels should be checked prior to application.

New Concrete

The concrete should be allowed to cure for a minimum of 30 days unless using an Intégrité Coatings Moisture Stopping Primer. Sand blasting, diamond grinder w/30 grit or coarser or acid etching is required to remove the surface laitance that appeared during the curing process. Shot blasting is not suggested. Chloride, moisture and pH levels should be checked prior to application. Intégrité Coatings Basecoat can be used to reduce outgassing.

Aluminum, Galvanized Steel, Non-Ferrous Metals

All metals must be prepared to a near white surface that is equivalent to SSPC 10 or NACE 2. For immersion service, a 3 mil blast profile is recommended. A 2 mil profile is generally accepted. Intégrité Coatings Basecoat must be used as the adhesive primer on all metals prior to applying other coatings.

Wood

Sand entire surface to remove any burs or rough spots that may affect the finish of the coatings. Make sure all nail/screw holes and joints are detailed using either Intégrité Coatings Fast Patch or Intégrité Coatings Fortification Formula prior to coating. Cotton mesh may be used to help bridge joints in moving substrates. Primer will be the **INTÉGRITÉ COATINGS BUILD COAT**.

Existing Coatings

Cured coatings (beyond their re-coat windows) must be abraded via scuff sanding with 80-120 grit sandpaper prior to the application of Intégrité Coatings Basecoat. Wipe surface clean with a tack rag after a thorough vacuuming to perform a final cleaning.

Substrate Repairs

All spalls and cracks should be chased out and repaired to ICRI standards using Intégrité Coatings Fortification Formula. Expansion joints should be honored.

INSTALLATION RECOMMENDATIONS

Intégrité Coatings Build Coat adheres well to several sound substrates and coatings when properly prepared including but not limited to; concrete, steel, fiberglass, epoxy, urethanes, and polyureas. All surfaces should be free of loose particles, rust, voids, and spalls. It is recommended that this product be applied in a multi-directional (north, south, east and west) motion to help ensure proper coating thickness.

APPLICATION INFORMATION

Material should be pre-conditioned to a minimum of 50°F (10°C) prior to use. Thoroughly mix both the A and B side components using separate paddle mixers and a drill for a minimum of 1 minute to place the solids content evenly in suspension. This should be done prior to every use before combining the two components. Following the mix ratio of 1A:2B, combine the two components in a calibrated mixing container and blend together with a paddle style mixer and drill for at least 1 minute. When used as the intermediate coating on a double broadcast quartz floor, Intégrité Coatings suggests adding Acetone at a rate of 10% by total volume mixed to thin the coating and make it easier to apply. Intégrité Coatings recommends a maximum batch size of 1-2 gallons at a time, however larger quantities can be mixed depending on the scope of the project. Never mix more material than can be placed and finished in 20-25 minutes.

Squeegee Application (Double Broadcast Quartz Flooring)

When used as the intermediate coating, the mixed product should be poured on the floor and spread using a tight, flat squeegee. It should then be backrolled using a saturated roller until even in thickness. Decorative aggregate should be broadcast into the wet coating no later than 20 minutes after application.

Roller

Use only phenolic core, solvent resistant, natural or synthetic fiber roller covers. ¼" to ¾" nap are acceptable, thicker nap may cause bubbling of the coating.

Brush

Inexpensive natural fiber chip brushes are suggested – 2" to 4" width depending on the application. These will be one-time use items.

Thinner

Intégrité Coatings Build Coat can be thinned using Acetone at rates up to but not exceeding 15% by total volume mixed.

Clean Up

Use ACETONE to clean tools, etc. before product cures.

SHELF LIFE AND STORAGE

Twelve (12) months in factory delivered unopened buckets. Keep away from extreme heat, cold and moisture. Maintain at a proper storage temperature of 50-90° F. Keep out of direct sunlight and away from fire hazards. **DO NOT APPLY IN DIRECT SUNLIGHT OR WHEN TEMPERATURES ARE STEADILY RISING.**

REPAIRS AND MAINTENANCE

Re-application of the product after 12 hours of initial application requires sanding and cleaning to achieve optimum adhesion. Contact an Intégrité Coatings representative for site specific recommendations.

LEED CREDITS

Most Intégrité Coatings products contribute to LEED Credits. See our LEED Credit Bulletin for more information.

CERTIFICATIONS

VOC Compliant in all 50 states, Canada, Australia and Various Countries in Europe (National Standards – IMC)

USDA and FDA certified food safe for incidental food contact.

Radiant Flux Tested and Certified.

SHIPPING INFORMATION

| | |
|---------------------|------------------------|
| Flash Point: | 140°C (284°F) |
| Weight/Gallon: | 9.9 ±1.0 lbs. |
| DOT HAZARD CLASS | N / A |
| DOT PACKAGING GROUP | II |
| DOT LABEL | N / A |
| DOT SHIPPING NAME | Paint Related Material |
| DOT PLACARD | N / A |
| UN / NA NUMBER | N / A |

SAFETY PRECAUTIONS

DANGER!! Vapor and Atomized liquids are harmful. Overexposure may cause lung damage, allergic skin reactions, or respiratory reactions. Effects may be permanent, may affect the brain or nervous system causing dizziness, headaches, or nausea. Use only in well ventilated areas, wear approved respirators when necessary. Keep out of reach of children. See MSDS for First Aid recommendations.

WARRANTY

The technical data and any other printed information furnished by Intégrité Polyurea Coatings are true and accurate to the best of our knowledge. INTÉGRITÉ COATINGS BUILD COAT™ conforms to in house quality control procedures and should be considered free of defects. The data provided is believed to be reliable and is offered solely for evaluation. The use of this product is beyond the control of the seller, therefore the buyer assumes all risks of use and handling whether done in a matter that is in accordance with the provided posted directions or not. Intégrité Coatings makes no warranty; expressed or implied, of its products and shall not be liable for indirect or consequential damage in any event.



INTÉGRITÉ COATINGS BUILD COAT

INTÉGRITÉ COATINGS BUILD COAT IS MIXED AT A RATIO OF 1A : 2B

THIS CHART IS FOR APPLYING THE INTERMEDIATE COAT ON A DOUBLE BROADCAST QUARTZ FLOOR ONLY

| FLOOR SIZE (SF) | COVERAGE RATE (SF / GAL) | TOTAL AMOUNT REQ'D (GAL) | PART A (OZ) | PART B (OZ) | OPTIONAL ACETONE @ 10% (OZ) |
|-----------------------|--------------------------------|--------------------------------|-------------------|-------------------|-----------------------------------|
| 100 | 100 | 1.0 | 43 | 85 | 13 |
| 150 | 100 | 1.5 | 64 | 128 | 19 |
| 200 | 100 | 2.0 | 85 | 171 | 26 |
| 250 | 100 | 2.5 | 107 | 213 | 32 |
| 300 | 100 | 3.0 | 128 | 256 | 38 |
| 350 | 100 | 3.5 | 149 | 299 | 45 |
| 400 | 100 | 4.0 | 171 | 341 | 51 |
| 450 | 100 | 4.5 | 192 | 384 | 58 |
| 500 | 100 | 5.0 | 213 | 427 | 64 |
| 550 | 100 | 5.5 | 235 | 469 | 70 |
| 600 | 100 | 6.0 | 256 | 512 | 77 |
| 650 | 100 | 6.5 | 277 | 555 | 83 |
| 700 | 100 | 7.0 | 299 | 597 | 90 |
| 750 | 100 | 7.5 | 320 | 640 | 96 |
| 800 | 100 | 8.0 | 341 | 683 | 102 |
| 850 | 100 | 8.5 | 363 | 725 | 109 |
| 900 | 100 | 9.0 | 384 | 768 | 115 |
| 950 | 100 | 9.5 | 405 | 811 | 122 |
| 1000 | 100 | 10.0 | 427 | 853 | 128 |
| 1050 | 100 | 10.5 | 448 | 896 | 134 |
| 1100 | 100 | 11.0 | 469 | 939 | 141 |
| 1150 | 100 | 11.5 | 491 | 981 | 147 |
| 1200 | 100 | 12.0 | 512 | 1024 | 154 |
| 1250 | 100 | 12.5 | 533 | 1067 | 160 |
| 1300 | 100 | 13.0 | 555 | 1109 | 166 |
| 1350 | 100 | 13.5 | 576 | 1152 | 173 |
| 1400 | 100 | 14.0 | 597 | 1195 | 179 |

***NUMBERS ABOVE ARE CLOSE ESTIMATES, NOT EXACT QUANTITIES**

INTÉGRITÉ COATINGS BUILD COAT IS APPLIED USING A FLAT SQUEEGEE AND BACKROLL TECHNIQUE.

INTÉGRITÉ POLYUREA COATINGS

3001 103rd Lane NE Blaine, MN 55449

866-765-4474 COPYRIGHT INTÉGRITÉ POLYUREA COATINGS 2011

INTÉGRITÉ COATINGS

EXTERIOR TOPCOAT

The **Intégrité Coatings Exterior Topcoat** is a two component, 1:1 ratio, Aliphatic Polyurea that has excellent chemical resistance and is used as an exterior top coat over a number of systems. With 100% UV-Stability, the **Intégrité Coatings Exterior Top Coat** is able to be installed outdoors without any yellowing, chalking or fading over time. Due to the two component nature of this product, it is also possible to use it for higher build topcoats over double broadcast quartz floors and those with heavy texture.

PRODUCT RE-COAT WINDOWS

Because all Intégrité Coatings are fast setting, consecutive coats must be applied within certain timeframes to ensure proper inter-coat adhesion of the system. A re-coat window chart is available in the manual to show the MAXIMUM amount of time that can be allowed between coats. If these timeframes are exceeded, say for an emergency or weather conditions, it will be necessary to scuff sand the cured coatings to provide an anchor for adhesion. Reference the Tech Data Sheets for the individual materials for instructions on how to prepare them if the situation calls for it.

APPLICATION OVER A PARTIAL BROADCAST CHIP FLOOR or MEDICI TWO COLOR BASECOAT

- **FOLLOW THE RE-COAT WINDOW CHART TO DETERMINE THE MAXIMUM TIME BETWEEN COATS. THESE TIMEFRAMES MUST BE FOLLOWED TO PROVIDE PROPER INTER-COAT ADHESION BETWEEN THE BASECOAT AND THE TOPCOAT AND CREATE DURABLE FINISHED FLOORS. PLAN ACCORDINGLY ON LARGE JOBSITES TO COMPLETE SECTIONS AT A TIME FROM START TO FINISH.**
- Remove the lid from the **Part A** 1-gallon bucket of **Intégrité Coatings Exterior Topcoat** and use a drill with paddle style mixer or a paint stick to mix the material for at least 1 minute prior to use. Replace the lid immediately after spinning so the solvent does not flash out. Remove the lid from the **Part B** 1-gallon bucket and use a drill with separate paddle style mixer or a paint stick to mix the material for 1 minute. Replace the lid immediately.
- **ALWAYS STORE MATERIAL OUT OF DIRECT SUNLIGHT.**
- Reference the mix charts to determine the quantities needed and maximum batch sizes
- Pour desired amount of **Part A** into calibrated mixing container.
- Add desired amount of **Part B** to the same mixing container keeping the materials at a **1A:1B** ratio and following the mix charts
- Spin the materials thoroughly for at least 1 minute using a drill and paddle style mixer. Be careful not to whip the material and introduce air and moisture to the coating. This will accelerate the cure times and reduce workability.
- For clear coating vertical surfaces, mix small batches and apply with a brush or small roller to achieve a uniform finish. It will always be helpful to use any natural sunlight or interior lights to check the finish. Avoid having product run down and accumulate on the floor.
- **ALWAYS CLEAR COAT THE VERTICAL SURFACES PRIOR TO COATING THE FLOOR - DUE TO THE FAST SETTING NATURE OF THE INTÉGRITÉ COATINGS EXTERIOR TOPCOAT, IT WILL BE DIFFICULT TO COAT THE VERTICALS AND FLOOR AT THE SAME TIME.**
- Pour the mixed material into an 18" roller pan, retaining a small amount to pour into a "cut bucket" for cutting in edges with a brush. Begin by having one installer cut in the edges in the first area to be coated, remembering to apply the coating at the specified spread rate. The coating should be applied thin at a spread rate of 400 square feet per gallon.
- Fully saturate an 18" 3/8 nap roller with product and spread the material on the floor using an M and W pattern. Once a 4 foot section across the length of the floor is coated you will want to cross roll the coating to create a uniform thickness. Start at the back wall and simply drag the roller from end to end perpendicular to your original roll, always remembering to start from the same side. **DO NOT GO BACK AND FORTH ACROSS THE FLOOR.** Overlap your cross-roll by about 4-6 inches and continue until the entire section is even in appearance. Continue this process of rolling a 4' strip then cross rolling until the floor is complete.
- Aluminum oxide anti-slip aggregate may be broadcast into the wet coating at this point. However, unlike with the **Intégrité Coatings Topcoat** (standard) you may not have the availability to backroll the aluminum oxide in. The **Intégrité Coatings Exterior Topcoat**, due to its two component nature and internal catalysts will make it tack up much faster.



- The finished system will be UV-stable, highly abrasion and chemical resistant and should take only one day to install. The floor will be able to withstand foot traffic in 6-8 hours after the final application (dependent on temperature) and vehicle traffic in 24 hours.

SQUEEGEE APPLICATION OVER A FULL BROADCAST CHIP FLOOR

- Remove the lid from the **Part A** 1-gallon bucket of Intégrité Coatings Exterior Topcoat and use a drill with paddle style mixer or a paint stick to mix the material for at least 1 minute prior to use. Replace the lid immediately after spinning so the solvent does not flash out. Remove the lid from **Part B** 1 gallon bucket and use a drill with separate paddle style mixer or a paint stick to mix the material for 1 minute. Replace the lid immediately.
- **ALWAYS STORE MATERIAL OUT OF DIRECT SUNLIGHT.**
- Reference the mix charts to determine the quantities needed and maximum batch sizes
- Pour desired amount of **Part A** into calibrated mixing container.
- Add desired amount of **Part B** to the same mixing container keeping the materials at a **1A:1B** ratio and following the mix charts
- Spin the materials thoroughly for at least 1 minute using a drill and paddle style mixer. Be careful not to whip the material and introduce air and moisture to the coating. This will accelerate the cure times and reduce workability.
- For clear coating vertical surfaces, mix small batches and apply with a brush or small roller to achieve a uniform finish. It will always be helpful to use any natural sunlight or interior lights to check the finish. Avoid having product run down and accumulate on the floor.
- **ALWAYS CLEAR COAT THE VERTICAL SURFACES PRIOR TO COATING THE FLOOR - DUE TO THE FAST SETTING NATURE OF THE INTÉGRITÉ COATINGS EXTERIOR TOPCOAT, IT WILL BE DIFFICULT TO COAT THE VERTICALS AND FLOOR AT THE SAME TIME.**
- Pour the mixed material on the floor in a large, 12" wide ribbon, and use a flat blade squeegee to spread the material evenly over the floor. Always maintain a good amount of pressure on the squeegee blade or puddling of the coating can occur. Angle the squeegee towards walls/joints to apply up to edges. Any buildup that cannot be moved by squeegee should be picked up and distributed by a 3" chip brush, leaving a uniform coat wall to wall.
- **IT IS THE RESPONSIBILITY OF THE SQUEEGEE APPLICATOR TO APPLY A UNIFORM COAT OF INTÉGRITÉ COATINGS EXTERIOR TOPCOAT OVER THE CHIP SO THE ROLLING APPLICATOR DOES NOT HAVE TO DO EXTRA WORK TO FILL IN DRY SPOTS OR SPREAD OUT PUDDLES. ANY VOIDS LEFT IN THE SQUEEGEE COAT WILL END UP AS "DRY" SPOTS ON THE FINISHED FLOOR. THICKER AREAS WILL BE GLOSSIER IN APPEARANCE.**
- Once the squeegee applicator is about 6-8 feet off the back wall, the roller can get ready to finish the clear coat. Pour out the next strip of material to be pulled around with a squeegee. Heavily saturate the roller and roll a 4 foot section across the length of the floor, starting at one end and working the material once from side to side and then back to where you started. This will even out the top coat and cover high/low spots. As with the base coat, cross roll the section applying little to no pressure. This will eliminate roller marks in the finish. Continue this technique throughout the floor, overlapping into the wet edge with the roller and keeping cross rolls even and perpendicular to the wall.
- **ALWAYS CROSS-ROLL FROM THE SAME SIDE / STARTING POINT TO FINISH OFF THE FLOOR.**
- Aluminum oxide anti-slip aggregate may be broadcast into the wet coating at this point. However, unlike with the **Intégrité Coatings Topcoat** (standard) you may not have the availability to backroll the aluminum oxide in. The **Intégrité Coatings Exterior Topcoat**, due to its two component nature and internal catalysts will make it tack up much faster.
- The finished system will be UV-stable, highly abrasion and chemical resistant and should take only one day to install. The floor will be able to withstand foot traffic in 6-8 hours after the final application (dependent on temperature) and vehicle traffic in 24 hours.



SQUEEGEE APPLICATION OVER A SINGLE or DOUBLE BROADCAST QUARTZ FLOOR

- Remove the lid from the **Part A** 1-gallon bucket of Intégrité Coatings Exterior Topcoat and use a drill with paddle style mixer or a paint stick to mix the material for at least 1 minute prior to use. Replace the lid immediately after spinning so the solvent does not flash out. Remove the lid from **Part B** 1 gallon bucket and use a drill with separate paddle style mixer or a paint stick to mix the material for 1 minute. Replace the lid immediately.
- **ALWAYS STORE MATERIAL OUT OF DIRECT SUNLIGHT.**
- Reference the mix charts to determine the quantities needed and maximum batch sizes
- Pour desired amount of **Part A** into calibrated mixing container.
- Add desired amount of **Part B** to the same mixing container keeping the materials at a **1A:1B** ratio and following the mix charts
- Spin the materials thoroughly for at least 1 minute using a drill and paddle style mixer. Be careful not to whip the material and introduce air and moisture to the coating. This will accelerate the cure times and reduce workability.
- For clear coating vertical surfaces, mix small batches and apply with a brush or small roller to achieve a uniform finish. It will always be helpful to use any natural sunlight or interior lights to check the finish. Avoid having product run down and accumulate on the floor.
- **ALWAYS CLEAR COAT THE VERTICAL SURFACES PRIOR TO COATING THE FLOOR** - Due to the fast setting nature of the Intégrité Coatings Exterior Topcoat, it will be difficult to coat the verticals and floor at the same time.
- Pour the mixed material on the floor in a large, 12" wide ribbon, and use a flat blade squeegee to spread the material evenly over the floor. Always maintain a good amount of pressure on the squeegee blade or puddling of the coating can occur. Angle the squeegee towards walls/joints to apply up to edges. Any buildup that cannot be moved by squeegee should be picked up and distributed by a 3" chip brush, leaving a uniform coat wall to wall.
- **IT IS THE RESPONSIBILITY OF THE SQUEEGEE APPLICATOR TO APPLY A UNIFORM COAT OF INTÉGRITÉ COATINGS EXTERIOR TOPCOAT OVER THE QUARTZ SO THE ROLLING APPLICATOR DOES NOT HAVE TO DO EXTRA WORK TO FILL IN DRY SPOTS OR SPREAD OUT PUDDLES. ANY VOIDS LEFT IN THE SQUEEGEE COAT WILL END UP AS "DRY" SPOTS ON THE FINISHED FLOOR. THICKER AREAS WILL BE GLOSSIER IN APPEARANCE.**
- Once the squeegee applicator is about 6-8 feet off the back wall, the roller can get ready to finish the clear coat. Pour out the next strip of material to be pulled around with a squeegee. Heavily saturate the roller and roll a 4 foot section across the length of the floor, starting at one end and working the material once from side to side and then back to where you started. This will even out the top coat and cover high/low spots. As with the base coat, cross roll the section applying little to no pressure. This will eliminate roller marks in the finish. Continue this technique throughout the floor, overlapping into the wet edge with the roller and keeping cross rolls even and perpendicular to the wall.
- If the roller seems to be "over-saturated" and is simply pushing material around instead of laying it off, it is suggested to "empty" the roller out by rolling it on a piece of scrap cardboard or similar. This will pull some material out of the roller and allow it to perform properly during the most crucial part of the installation.
- **ALWAYS CROSS-ROLL FROM THE SAME SIDE / STARTING POINT TO FINISH OFF THE FLOOR.**
- The finished system will be UV-stable, highly abrasion and chemical resistant and should take only one day to install. The floor will be able to withstand foot traffic in 6-8 hours after the final application (dependent on temperature) and vehicle traffic in 24 hours.

FOR ALL INTÉGRITÉ COATINGS TOPCOAT APPLICATIONS

- **ALWAYS INSIST THAT CUSTOMERS CHECK THE FLOOR FOR CURE BEFORE WALKING OR DRIVING ON THE SURFACE. IT SHOULD BE COMPLETELY TACK FREE AND HARD TO THE TOUCH. IT WILL RESIST FINGERNAIL MARKING COMPLETELY.**
- **COLDER TEMPERATURES INCREASE THE CURE TIMES, WHILE WARMER TEMPERATURES WILL SPEED THEM UP.**
- To achieve smoother finishes or higher gloss floors, it will be the option of the installer to apply additional **Intégrité Coatings Exterior Topcoats**. Always follow the re-coat window chart to determine the maximum time between coats. These timeframes must be followed to provide proper inter-coat adhesion between topcoats and create durable finished floors. Plan accordingly on large jobsites to complete sections at a time from start to finish.

INTÉGRITÉ COATINGS EXTERIOR TOPCOAT

Product Description

Intégrité Coatings Exterior Topcoat is a two-component, 80% solids, VOC Compliant, Aliphatic Polyurea that was developed for UV stable floor topcoats, chemical resistance and corrosion control. This coating provides reliable performance in a wide range of temperatures and climate conditions. 100% UV stability makes it an excellent choice for both interior and exterior applications.

PRODUCT FEATURES

- ❖ Displays fast cure times with excellent adhesion characteristics to a variety of substrates / coatings.
- ❖ Can be spray or roll applied at temperatures ranging from -20-120°F and in high humidity.
- ❖ Will provide a glossy smooth finish when cured.
- ❖ 100% polyurea elastomer displays excellent UV, chemical, and abrasion resistance at a wide range of temperatures.
- ❖ Emits virtually no odors and can be applied indoors with minimal disturbance contributed to high VOC levels that are found in most epoxies and polyurethanes.
- ❖ Versatile topcoat for use on both horizontal and vertical applications.
- ❖ Easy to mix 1:1 ratio.

PRIMARY APPLICATIONS

- ❖ UV-stable top coat for Interior / Exterior use
- ❖ Aircraft hangar floors
- ❖ Low temperature equipment
- ❖ Maintenance facilities
- ❖ Offshore platforms
- ❖ Industrial shop floors
- ❖ Car washes or wash bays
- ❖ Secondary containment
- ❖ Wastewater treatment applications
- ❖ Patios and Pool Surrounds

TEMPERATURE

-20°F - 120°F (-29°C - 49°C)

Optimal installation temperature is 40°F - 100°F (4°C - 38°C). Extreme cold applications may slow the cure time so plan accordingly. High heat and humidity will shorten work time.

ADHESION RESULTS

ASTM D-4541 Elcometer

| | | |
|--------------------|--------------------|---------|
| Concrete-no primer | concrete failure | >400psi |
| Concrete-primer | concrete failure | >550psi |
| Wood-no primer | wood failure/shear | >400psi |

PACKAGING

Product is sold CLEAR in a 2 gallon KIT (1 gal A, 1 gal B)

TYPICAL PHYSICAL PROPERTIES

| | | |
|----------------------------------|----------------------------|------------|
| Tensile Strength | ASTM D412 | 6000 |
| Compressive Strength (psi Mpa) | ASTM D695 | 9400 |
| Elongation | ASTM D412 | 100 |
| Tear Strength (PLI) | ASTM 2240 | 330 |
| Hardness, Shore D | ASTM D2240 | 73 |
| Flexibility, 1/8" Mandrel | ASTM D1737 | Pass |
| Falling Sand Abrasion Resistance | ASTM D 968 | 30 |
| *Liters sand/ 1 dry mil | | |
| Tabor Abrasion mg loss | ASTM D4060 | |
| CSI7-Wheel | 30 mg Loss per 1000 cycles | |
| Viscosity B side 75°C | CPS 1400-1500 | |
| Viscosity A side 75°C | CPS 700-800 | |
| Gloss | ASTMD-523 | 90+ |
| Radiant Flux (CRF) | ASTM E 648 | 1.14 W/cm² |

TYPICAL PROCESSING PROPERTIES

| | |
|----------------------------|---------------------------|
| 1:1 Ratio | Tack Free - 1-3 hours |
| Relative Humidity-72°F-54% | Hard dry - 2-4 hours |
| | Recoat Maximum - 12 hours |

Recommended Coverages

| | | |
|---------------------------------------|------------|----------------|
| Topcoat over Medici Basecoat | 400 sf/gal | @3.2 mils DFT |
| Topcoat over Full Broadcast Quartz | 125 sf/gal | @10.2 mils DFT |
| Topcoat over Full Broadcast 1/4" Chip | 200 sf/gal | @6.4 mils DFT |

SURFACE PREPARATION

Old concrete

Sandblasting, diamond grinder w/30 grit or coarser, or water blasting is highly recommended to remove surface contaminants. Any oils or fats must be removed prior to product application. Do not apply to wet substrates. Chloride, moisture and pH levels should be checked prior to application.

New Concrete

The concrete should be allowed to cure for a minimum of 30 days unless using an Intégrité Coatings Moisture Stopping Primer. Sand blasting, diamond grinder w/30 grit or coarser or acid etching is required to remove the surface laitance that appeared during the curing process. Shot blasting is not suggested. Chloride, moisture and pH levels should be checked prior to application. Intégrité Coatings Basecoat can be used to reduce outgassing.

Aluminum, Galvanized Steel, Non-Ferrous Metals

All metals must be prepared to a near white surface that is equivalent to SSPC 10 or NACE 2. For immersion service, a 3 mil blast profile is recommended. A 2 mil profile is generally accepted. Intégrité Coatings Basecoat must be used as the adhesive primer on all metals prior to applying other coatings.

Wood

Sand entire surface to remove any burs or rough spots that may affect the finish of the coatings. Make sure all nail/screw holes and joints are detailed using either Intégrité Coatings Fast Patch or Intégrité Coatings Fortification Formula prior to coating. Cotton mesh may be used to help bridge joints in moving substrates. Primer will be the **INTÉGRITÉ COATINGS BUILD COAT**. Intégrité Coatings Exterior Topcoat is not recommended as a high build primer on wood substrates.

Existing Coatings

Cured coatings (beyond their re-coat windows) must be abraded via scuff sanding with 80-120 grit sandpaper prior to the application of Intégrité Coatings Exterior Topcoat. Wipe surface clean with a tack rag after a thorough vacuuming to perform a final cleaning.

Substrate Repairs

All spalls and cracks should be chased out and repaired to ICRI standards using Intégrité Coatings Fortification Formula. Expansion joints should be honored.

INSTALLATION RECOMMENDATIONS

Intégrité Coatings Exterior Topcoat adheres well to several sound substrates and coatings when properly prepared including but not limited to; concrete, steel, fiberglass, epoxy, urethanes, and polyureas. All surfaces should be free of loose particles, rust, voids, and spalls. It is recommended that this product be applied in a multi-directional (north, south, east and west) motion to help ensure proper coating thickness. **ALWAYS FOLLOW THE DEW POINT CHART AND APPLY ACCORDINGLY.**

APPLICATION INFORMATION

Material should be pre-conditioned to a minimum of 50°F (10°C) prior to use. Thoroughly mix both the A and B side components using separate paddle mixers and a drill for a minimum of 1 minute to place the solids content evenly in suspension. This should be done prior to every use before combining the two components. Following the mix ratio of 1A:1B, combine the two components in a calibrated mixing container and blend together with a paddle style mixer and drill for at least 1 minute. Intégrité Coatings recommends a maximum batch size of 1 gallon, however larger quantities can be mixed depending on the scope of the project. Never mix more material than can be placed and finished in 20-25 minutes.

Roller

Use only phenolic core, solvent resistant, natural or synthetic fiber roller covers. ¼" to 3/8" nap are acceptable, thicker nap may cause bubbling of the coating.

Brush

Inexpensive natural fiber chip brushes are suggested – 2" to 4" width depending on the application. These will be one-time use items.

Thinner

Intégrité Coatings Exterior Topcoat can be thinned with up to 10% Acetone by volume if a thinner coating is required.

Clean Up

Use ACETONE to clean tools, etc. before product cures.

SHELF LIFE AND STORAGE

Twelve (12) months in factory delivered unopened pouches. Keep away from extreme heat, cold and moisture. Maintain at a proper storage temperature of 50-90° F. Keep out of direct sunlight and away from fire hazards.

REPAIRS AND MAINTENANCE

Re-application of the product after 12 hours of initial application requires sanding and cleaning to achieve optimum adhesion. Contact an Intégrité Coatings representative for site specific recommendations.

LEED CREDITS

Most Intégrité Coatings products contribute to LEED Credits. See our LEED Credit Bulletin for more information.

CERTIFICATIONS

VOC Compliant in all 50 states, Canada, Australia and Various Countries in Europe (National Standards – IMC)

USDA and FDA certified food safe for incidental food contact.

Radiant Flux Tested and Certified.

SHIPPING INFORMATION

| | |
|---------------------|------------------------|
| Flash Point: | 17°C (63°F) |
| Weight/Gallon: | 8.5 ±1.0 lbs. |
| DOT HAZARD CLASS | Class 3 |
| DOT PACKAGING GROUP | II |
| DOT LABEL | Flammable Liquid |
| DOT SHIPPING NAME | Paint Related Material |
| DOT PLACARD | Flammable Liquid |
| UN / NA NUMBER | UN 1263 |

SAFETY PRECAUTIONS

DANGER!! Vapor and Atomized liquids are harmful. Overexposure may cause lung damage, allergic skin reactions, or respiratory reactions. Effects may be permanent, may affect the brain or nervous system causing dizziness, headaches, or nausea. Use only in well ventilated areas, wear approved respirators when necessary. Keep out of reach of children. See MSDS for First Aid recommendations.

WARRANTY

The technical data and any other printed information furnished by Intégrité Polyurea Coatings are true and accurate to the best of our knowledge. INTÉGRITÉ COATINGS EXTERIOR TOPCOAT™ conforms to in house quality control procedures and should be considered free of defects. The data provided is believed to be reliable and is offered solely for evaluation. The use of this product is beyond the control of the seller, therefore the buyer assumes all risks of use and handling whether done in a matter that is in accordance with the provided posted directions or not. Intégrité Coatings makes no warranty; expressed or implied, of its products and shall not be liable for indirect or consequential damage in any event.

Chemical Resistance

Acetic Acid 100% RC
 Acetone R
 Ammonium Hydroxide 50% RC
 Benzene RC
 Brake Fluid R
 Brine saturated H₂O R
 Chlorinated H₂O R
 Diesel fuel R
 Ethanol R
 Gasoline R
 Gasoline/5% MTBE R
 Gasoline/5% Methanol R
 Hydrochloric Acid 20% R
 Hydrofluoric Acid 10% RC
 Hydraulic fluid (oil) R
 Isopropyl Alcohol R
 Jet Fuel (JP-4) R
 Lactic Acid RC
 MEK R

Methanol R
 Methylene Chloride C
 Mineral Spirits R
 Motor Oil R
 MTBE C
 Muriatic Acid 10% R
 NaCl/H₂O 10% R
 Nitric Acid 20% RC
 Phosphoric Acid 10% R
 Phosphoric Acid 50% NR
 Potassium Hydroxide 10% R
 Potassium Hydroxide 20% R, Dis
 Propylene Carbonate RC
 Skydrol RC
 Sodium Hydroxide 25% R
 Sodium Hydroxide 50% R, Dis
 Sodium Hypochlorite 10% R
 Sodium Bicarbonate R
 Stearic Acid R

Sugar/H₂O R
 Sulfuric Acid 10% R
 Sulfuric Acid >50% R
 Toluene R
 1, 1,1-Trichlorethane C
 Trisodium Phosphate R
 Vinegar/H₂O 5% R
 H₂O 14 days at 82° C R
 Xylene R

Chemical Resistance Key

R=recommended/little or no visible damage

RC=recommended conditional/some effect, swelling or discoloration

C=Conditional/Cracking-wash within one hour of spillage to avoid affects

NR=Not recommended

Dis=Discolorative



INTÉGRITÉ COATINGS EXTERIOR TOPCOAT

INTÉGRITÉ COATINGS EXTERIOR TOPCOAT IS MIXED AT A RATIO OF 1A : 1B

THIS CHART IS FOR TOPCOATING OVER A SINGLE BROADCAST QUARTZ FLOOR ONLY

| FLOOR SIZE (SF) | COVERAGE RATE (SF / GAL) | TOTAL AMOUNT REQ'D (GAL) | PART A (OZ) | PART B (OZ) |
|-----------------------|--------------------------------|--------------------------------|-------------------|-------------------|
| 100 | 125 | 0.8 | 51 | 51 |
| 125 | 125 | 1.0 | 64 | 64 |
| 150 | 125 | 1.2 | 77 | 77 |
| 200 | 125 | 1.6 | 102 | 102 |
| 250 | 125 | 2.0 | 128 | 128 |
| 300 | 125 | 2.4 | 154 | 154 |
| 350 | 125 | 2.8 | 179 | 179 |
| 400 | 125 | 3.2 | 205 | 205 |
| 450 | 125 | 3.6 | 230 | 230 |
| 500 | 125 | 4.0 | 256 | 256 |
| 550 | 125 | 4.4 | 282 | 282 |
| 600 | 125 | 4.8 | 307 | 307 |
| 650 | 125 | 5.2 | 333 | 333 |
| 700 | 125 | 5.6 | 358 | 358 |
| 750 | 125 | 6.0 | 384 | 384 |
| 800 | 125 | 6.4 | 410 | 410 |
| 850 | 125 | 6.8 | 435 | 435 |
| 900 | 125 | 7.2 | 461 | 461 |
| 950 | 125 | 7.6 | 486 | 486 |
| 1000 | 125 | 8.0 | 512 | 512 |
| 1050 | 125 | 8.4 | 538 | 538 |
| 1100 | 125 | 8.8 | 563 | 563 |
| 1150 | 125 | 9.2 | 589 | 589 |
| 1200 | 125 | 9.6 | 614 | 614 |
| 1250 | 125 | 10.0 | 640 | 640 |
| 1300 | 125 | 10.4 | 666 | 666 |
| 1350 | 125 | 10.8 | 691 | 691 |

*NUMBERS ABOVE ARE CLOSE ESTIMATES, NOT EXACT QUANTITIES

INTÉGRITÉ COATINGS EXTERIOR TOPCOAT IS APPLIED USING A FLAT SQUEEGEE AND BACKROLL TECHNIQUE.

SUGGESTED MAXIMUM BATCH SIZE PER MIX

INTÉGRITÉ POLYUREA COATINGS

3001 103rd Lane NE Blaine, MN 55449

866-765-4474 COPYRIGHT INTÉGRITÉ POLYUREA COATINGS 2011