



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
<small>*Liters sand/ 1 dry mil</small>		
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



FULL BROADCAST CHIP FLOOR - 1/4" CHIP

THIS CHART REPRESENTS DECORATIVE CHIP THROWN TO REJECTION

FLOOR SIZE (SF)	COVERAGE RATE (SF / LB)	AMOUNT GLUED DOWN (LBS)	AMOUNT NEEDED (LB)	BOXES OF CHIP (50 LBS EA)	AMOUNT RECOVERED (LB)
100	10	10	50	1	40
150	10	15	50	1	35
200	10	20	50	1	30
250	10	25	50	1	25
300	10	30	100	2	70
350	10	35	100	2	65
400	10	40	100	2	60
450	10	45	100	2	55
500	10	50	100	2	50
550	10	55	150	3	95
600	10	60	150	3	90
650	10	65	150	3	85
700	10	70	150	3	80
750	10	75	150	3	75
800	10	80	200	4	120
850	10	85	200	4	115
900	10	90	200	4	110
950	10	95	200	4	105
1000	10	100	200	4	100
1050	10	105	250	5	145
1100	10	110	250	5	140
1150	10	115	250	5	135
1200	10	120	250	5	130
1250	10	125	250	5	125
1300	10	130	300	6	170
1350	10	135	300	6	165
1400	10	140	300	6	160

*NUMBERS ABOVE ARE CLOSE ESTIMATES, NOT EXACT QUANTITIES

RECOVERED CHIP BEFORE SCRAPING SHOULD BE PUT BACK INTO BOX FOR FUTURE USE.

RECOVERED CHIP AFTER SCRAPING SHOULD BE DISCARDED AND NOT RE-USED

INTÉGRITÉ POLYUREA COATINGS

3001 103rd Lane NE Blaine, MN 55449

866-765-4474 COPYRIGHT INTÉGRITÉ POLYUREA COATINGS 2011

INTÉGRITÉ COATINGS TOPCOAT

The **Intégrité Coatings Topcoat** is a single component, UV-stable, Aliphatic Polyurea that has the best chemical resistance available on the market today. Due to its unique chemical make-up and manufacturing process, this coating provides exceptional protection while offering a virtually unlimited pot life and crystal clear finish. It is resistant to staining from a wide variety of chemicals and caustic materials. Low odor and minimal VOC content allow for interior applications on projects requiring high gloss, chemical and abrasion resistant finishes. This revolution in coatings technology will provide reliable performance in all aspects of the floor coating industry, including but not limited to; industrial and chemical manufacturing plants, primary and secondary containment, retail environments, residential and heavy commercial buildings, protective coatings for metal and wood, as well as thin film clear coats over a large list of substrates. The single component technology in the **Intégrité Coatings Topcoat** makes it very user friendly and produces unmatched performance characteristics.

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.**
- ❖ **MIXING** - Remove the tear strip and open the seal on the pouch of the **Intégrité Coatings Topcoat**. Use a screwdriver to remove the lid on the **TOPCOAT STABILIZER** and add the ENTIRE CONTENTS to the pouch. Use a drill with paddle style mixer to spin the combined 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.**
- ❖ Pour the 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 500-600 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 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. 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. It should always be backrolled to lock it in.
- ❖ To finish the system, 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 eliminate roller lines and produce an even, glossy finish. It is the extended pot-life of the **Intégrité Coatings Topcoat** that makes this possible.
- ❖ 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 (dependant on temperature) and vehicle traffic in 24 hours.



- ❖ **OPTION** – For areas that require a matte finish, you can follow the installation instructions for the **Intégrité Coatings Matte Topcoat** to apply a reduced gloss clear coat over the **Intégrité Coatings Medici Basecoat** in place. This clear coat will replace the **Intégrité Coatings Topcoat** listed above and must be installed following the product re-coat times listed in the manual.

SQUEEGEE APPLICATION OVER A FULL BROADCAST CHIP FLOOR

- ❖ Follow the mixing instructions above to prepare the material for installation.
- ❖ **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.**
- ❖ 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. The coating should be applied thin at a spread rate of 225-250 square feet per gallon.
- ❖ **IT IS THE RESPONSIBILITY OF THE SQUEEGEE APPLICATOR TO APPLY A TIGHT, UNIFORM COAT OF INTÉGRITÉ COATINGS 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 COULD END UP AS "DRY" SPOTS ON THE FINISHED FLOOR. ANY AREAS LEFT TOO THICK COULD CAUSE OUTGASSING IN THE FINISHED TOPCOAT.**
- ❖ 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. 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 becomes too saturated and starts to feel like it is pushing material around the floor instead of spreading it, empty the roller on an area of the floor that has not been squeegeed over yet. This will eliminate any high build areas and the possibility of applying the material too thick.
- ❖ Aluminum oxide anti-slip aggregate may be broadcast into the wet coating at this point. It should always be backrolled to lock it in.
- ❖ To finish the system, 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 eliminate roller lines and produce an even, glossy finish. It is the extended pot-life of the **Intégrité Coatings Topcoat** that makes this possible.
- ❖ It may be necessary to repeat the full length cross rolling process to completely level out the top coat and remove all roller lines.
- ❖ 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 (dependant 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 GLASS-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 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 TOPCOAT

Product Description

Intégrité Coatings Topcoat is a single component, 90% solids, VOC Compliant, Aliphatic Polyurea that was developed for high gloss UV-stable floor topcoats, chemical resistance, and corrosion control. This coating provides reliable performance in a wide range of temperatures and climate conditions. Intégrité Coatings Topcoat has excellent resistance to UV rays, abrasion, and many of today's harshest chemicals.

PRODUCT FEATURES

- ❖ Displays excellent adhesion characteristics to a variety of substrates / coatings.
- ❖ Unlimited pot life increases the workability of the coating, providing consistent aggregate broadcasts and uniform topcoat applications.
- ❖ Will provide a glossy smooth finish when cured.
- ❖ Coating displays excellent chemical and abrasion resistance.
- ❖ Emits virtually no odors and can be applied indoors with minimal disturbance to surrounding activities.
- ❖ VOC FREE
- ❖ 100% UV-Stable Aliphatic Chemistry
- ❖ Versatile, crystal clear topcoat for use on both horizontal and vertical applications.
- ❖ Single component means no possible mixing errors, thus eliminating the human error factor.
- ❖ Extended cure time delivers great self-leveling properties and glass-smooth finishes.

PRIMARY APPLICATIONS

- ❖ Heavy traffic areas
- ❖ Aircraft hangar floors
- ❖ Maintenance facilities
- ❖ Industrial shop floors
- ❖ Commercial kitchens
- ❖ Bathrooms and Lavatories
- ❖ Chemical manufacturing plants
- ❖ Wastewater treatment applications
- ❖ Bar, table and countertop sealer

TEMPERATURE

40°F - 120°F (4°C - 49°C)

Optimal installation temperature is 65°F - 80°F (18°C - 27°C). Extreme cold applications may slow the cure time.

ADHESION RESULTS

ASTM D-4541 Elcometer

Concrete-no primer	concrete failure	>500psi
Concrete-primer	concrete failure	>550psi
Wood-no primer	wood failure/shear	>400psi

PACKAGING

Product is sold CLEAR in 1 gallon pouches

TYPICAL PHYSICAL PROPERTIES

Tensile Strength	ASTM D412	5,500
Compressive Strength (psi Mpa)	ASTM D695	12,000
Elongation	ASTM D412	75
Tear Strength (PLI)	ASTM 2240	800
Hardness, Shore D	ASTM D2240	80
Flexibility, 1/8" Mandrel	ASTM D1737	Pass
Falling Sand Abrasion Resistance	ASTM D968	30
*Liters sand/ 1 dry mil		
Abrasion Resistance	ASTM D4060	
CSI7-Wheel (1,000 gm Load)		12 mg Loss / 500 cycles
Gloss	ASTMD-523	91+
Permeability		.038 WVT

TYPICAL PROCESSING PROPERTIES

Single Component - 72°F (24°C)	Tack Free-1-2 hours
Relativity Humidity - 54%	Hard dry-3-6 hours
	Recoat Minimum-4 hours
	Recoat Maximum - 12 hours

Recommended Coverages

Topcoat Over Partial Chip	450-550 sf/gal	@2.9 mils DFT
Topcoat Over Full Chip	200-300 sf/gal	@4.8 mils DFT
Topcoat Over Medici Basecoat	500-600 sf/gal	@2.6 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**. Intégrité Coatings 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 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 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. DO NOT APPLY IN DIRECT SUNLIGHT OR WHEN TEMPERATURES ARE STEADILY RISING. THIN MATERIAL WITH UP TO 15% MEK FOR TOPCOAT USE OVER 80°F (27°C)**

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. Thoroughly mix the single component material using a paddle mixer and drill for a minimum of 1 minute to place the solids content evenly in suspension. This should be done prior to every use. For each 1 gallon pouch, add the **ENTIRE CONTENTS** of the **TOPCOAT STABILIZER** and thoroughly mix together for a minimum of 1 minute with a drill and paddle style mixer until a uniform consistency is achieved. Pour the material into a roller pan or directly on the floor to squeegee apply. Follow the instructions in the installation manual for the different systems. Any unused material may be placed back in a separate, sealed storage container for future use. **DO NOT POUR UNUSED MATERIAL BACK INTO THE ORIGINAL SHIPPING CONTAINER AS IT COULD CONTAMINATE THE ENTIRE BATCH.** Seal all containers immediately after pouring out desired quantities. It is important to limit the time the pouch is open. 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 Topcoat 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 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.

SHIPPING INFORMATION

Flash Point:	47°C (117°F)
Weight/Gallon:	9.7 ±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 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