

FORMULA 131

FORMULA 131

ETCH & STAIN PROTECTION KIT

FOR NATURAL STONE



ITALIAN SURFACE SPECIALISTS




FORMULA 131

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Protect Your Stone Surfaces with Formula 131

Our patented Formula 131 water based sealer protects your natural stone surfaces from etching and staining caused by household products, food and beverages for up to 24 hours. Outperforms the competition and is proven to protect stone surfaces.

PERFORMANCE TESTING*	
Stain Resistance	
Chemical Resistance	
Abrasion Resistance	
*TCNA (Tile Council of North America) independent study.	



STAIN RESISTANT



FOOD SAFE



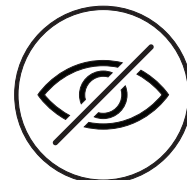
WATER RESISTANT



ANTI-ETCHING & CHEMICAL RESISTANT



ENVIRONMENTALLY SAFE



"INVISIBLE" SEAL

FORMULA 131 ETCH & STAIN PROTECTION KIT

Formula 131 Etch & Stain Protection

Formula 131 coating for natural stone is designed to prevent staining and etching, when properly applied. This formula is classified as being non-hazardous, having no VOCs, or harmful ingredients. During the application process we recommend the use of gloves and eye protection.

Before you begin the application process, calculate the volume of F131 needed based on surface area to be sealed. Once you have determined the necessary volume needs for your counter top surface, proceed with the instructions for application. It is critical that the Formula 131 application procedures and methods are followed to ensure consistent results are achieved every time.

STAIN TEST

Samples of honed white venatino marble were provided to the TCNA along with competitive sealers. TCNA personnel applied the sealers in accordance with manufacturer's instructions. Seven stain agents (per CTIOA-72) were applied and wiped off after 3 minutes. The results were then evaluated and graded according to CTIOA-T72 (a grade of 60 is required to pass; a grade of 70 is a perfect score). All competitive products failed after 3 minutes exposure. Formula 131 received a perfect grade after 24 hours exposure!

Tile Council of North America (TCNA) CTIOA-T72: Determinations of Effectiveness of Sealers on Porous Surfaces					
Product Tested	Laticrete (Stonetech) Bulletproof Sealer	Custom Products/Aquamix Sealer's Choice Gold	Mapei Ultracare Penetrating Plus SB	Raw/Unsealed White Marble	Formula 131™ Sealer
Test Duration	3 min	3 min	3 min	3 min	24 hours
Test Score	50	55	55	45	70
PASS / FAIL	FAIL	FAIL	FAIL	FAIL	PASS

Source: Test Conducted by the Tile Council of North America (TCNA), Anderson, SC, April 2017.

Included in the 65 sq. foot Kit:

- 8 oz. Part B - Pint Container
- 24 oz. Part A - Quart Container
- Safety Data Sheets
- Installation, Use, and Care Documents

Sold Separately:

- 1 tongue depressor for stirring Part B
- 1 full length stir stick for mixing Part A & B
- 2 each 6" roller frames
- 2 pack of 1/4" nap woven roller covers
- 2 pack of foam roller covers
- 2 Ultra-fine abrasive pads

**Included in the 250 sq. foot Kit:**

- 2.2 lbs. Part B - Half Gallon Container
- 6.6 lbs. Part A - Gallon Container
- Safety Data Sheets
- Installation, Use, and Care Documents

Sold Separately:

- 1 Mixing container - 2 ½ quart with lid
- 4 Paint sticks for mixing Part A & B
- 1 Each 6" roller frame
- 2 Pack of 1/4" nap 6" woven roller covers
- 2 Each 9" roller frames
- 3 Pack 1/4" nap 9" woven roller covers
- 2 Pack of 9" foam roller covers
- Ultra-fine abrasive pads
- 2 Paper pouring cups

Included in the 1,250 sq. foot Kit:

- 11 lbs. Part B - 2 Gallon Container
- 33 lbs. Part A - 5 Gallon Container
- Safety Data Sheets
- Installation, Use, and Care Documents

Sold Separately:

- 1 Mixing container - 2 ½ quart with lid
- 2 Each 1 gallon paint sticks for mixing Part B
- 2 Each 5 gallon paint sticks for mixing Part A
- 1 Each 6" roller frame
- 2 Pack of 1/4" nap 6" woven roller covers
- 2 Each 9" roller frames
- 3 Pack 1/4" nap 9" woven roller covers
- 2 Pack of 9" foam roller covers
- Ultra-fine abrasive pads
- 2 Paper pouring cups

Note: The 5 gallon kits will be shipped as 2 boxes;

- **Box 1 - 5 gallon pail holding 33 lbs. of Part A, while**
- **Box 2 - 2-gallon container of 11 lbs. of the Part B.**

APPLICATION INSTRUCTIONS

Application Instruction Preparation:

- Step 1: Coating Preparation
- Step 2: Perimeter Application
- Step 3: General Application
- Step 4: Back Rolling the Surface
- Step 5: General Application (Finish Coat)
- Step 6: Post Application Curing
- Step 7: Storage and Clean Up



**FORMULA 131 APPLICATION
INSTRUCTIONAL VIDEO**

Scan QR Code to watch video

Staging Area Set Up:

- Horizontal Surface Application: Place the stone slab on a flat, horizontal surface and prep space with a good light source that shows good visibility across the stone surface at a relatively low angle to observe a uniform application of the coating.
- Vertical Surface Application: For application on existing stone surfaces that are in contact with other surfaces, you will need to mask off the adjacent surfaces with tape to prevent getting sealer on them during the application process. Use a good quality painter's tape to create a clean edge between the stone surface and adjacent surfaces. If application is in an area without good lighting, we recommend using a portable hand-held light source, such as an LED flashlight. It is important to see that the entire surface is receiving a uniform application.

NOTE: Examples are backsplashes on countertops, bartops with cabinets or wall surfaces.

- Set up a staging area next to the stone surface and unbox your Formula 131 kit.

Surface Preparation:

Proper preparation of the stone surface is a key factor in achieving the desired results. Lightly sand the surface of the stone to remove any surface inconsistencies with a 220 grit wet or dry sandpaper to hone the surface and provide a consistent texture. Prior to coating, the raw stone surface should be cleaned then wiped using a soft cloth and a light amount of alcohol, isopropyl or ethanol will work best to remove any dust or contaminants. Ensure no residue is left on the surface of the stone.

NOTE: Formula 131 is applied as a thin film layer and is not intended to hide any surface defects on the unsealed stone.

Formula 131 Coating Preparation:

Formula 131 is delivered as a 2-part formula that is to be combined using a 3:1 ratio, meaning 1 part of the B component will get mixed with 3 Parts of the A component. **DO NOT** combine the two components until you're ready to begin application.

Step 1: Coating Preparation

- Open the container of Part B, and stir it until the powder on the bottom is mixed thoroughly into the surrounding liquid.
- Pour the contents of Part B into the container with Part A and stir until the formula is uniform and ready for application. A paint tray can be used for prepping and resting the rollers during the application process.
- Horizontal Surface Application: The formula should be transferred into a clean paper cup that can easily be poured on to the stone surface. Tray is not necessary for horizontal application since product will be directly poured onto surface being treated.
- Vertical Surface Application: Use a paint tray (instead of a cup) to hold the coating after it is mixed. Start by filling the tray well with only enough coating to allow for thorough wetting of the ¼" nap woven roller cover. Proceed to roll out excess coating on the tray inclined surface to ensure the roller cover is totally wetted, but does not have an excess of coating. Test by holding up the roller at a angle, if it drips that indicates there is excess sealer that needs to be squeezed out.



RIGHT AMOUNT
OF SEALER



TOO MUCH SEALER

NOTE: Re-stir the formula every ½ hour to keep it uniformly mixed. Scrape the stir-stick along the bottom pulling it upward until the stick comes out clean, with no residue.

APPLICATION INSTRUCTIONS

Formula 131 Application:

Step 2: Perimeter Application (First Coat)

- Horizontal Surface Application: Start by preparing the woven short-nap (1/4") "dripleless" roller cover. Then pour a small amount of coating near the perimeter of the surface and wet the entire roller cover before proceeding, and then begin to spread the coating up to the surface edge without pushing excess coating over the edge. You can seal the vertical edges of the surface simultaneously using the same roller, this includes vertical cut-out areas for sinks and cooktops.
- Vertical Surface Application: Start by pressing the wet roller onto the vertical surface to begin spreading out the coating. It should not be dripping from the roller. If drips do occur, simply roll across the excess coating to evenly spread it out over the surface area. You can also use foam brushes for application along edges for more control.

Step 3: General Application (First Coat)

Once the perimeter has been coated, you can begin coating the remaining center of the surface. Start by pouring coating near the perimeter then working it toward the middle, roll North to South then East to West.

Step 4: Back Rolling the Surface

Air bubbles will begin to emerge from the stone surface into the water-based sealer; these can be eliminated by 'back-rolling' the surface of the stone. When the entire surface appears to have an even application of coating, without any pooling (horizontal surface application), you can begin back-rolling the coating with the dry foam roller. Use the dry foam roller and move it smoothly with slight downward pressure over the wet surface, to both level out the sealer application, and burst the air bubbles. Continue rolling North to South then East to West.

For vertical application, if desired use the end of the dry foam roller to better blend the sealer along edges without transferring coating to adjacent surfaces.

NOTE: Ensure the foam roller remains dry. If it starts getting wet with sealer, wipe it with a paper towel to remove the liquid, and resume back-rolling.

For the best results, back-roll the surface in four directions, starting North to South, followed by re-rolling East to West. By taking the time to evenly back-roll the application you will be effectively bursting all of the air bubbles and producing a uniform finish. When the coating dries it will yield a surface that is slightly rough to the touch and uniformly protected. Additional sanding and/or polishing is needed to achieve smooth, matte, or polished finish.

APPLICATION INSTRUCTIONS

Step 5: General Application (Finish Coat)

NOTE: Apply finish coats immediately after back rolling the first coat while the surface is still wet. Two additional finish coats are required if sanding or polishing is needed post cure.

- Horizontal Surface Application: To insure full coverage is achieved, pour a small amount of sealer onto the back-rolled surface, and using the ¼” “dripless” roller, re-coat the entire surface.
NOTE: Very little additional sealer will be needed to re-wet the first coat. Once a second coat is applied, switch to the dry foam roller and back-roll the entire surface in the same manner as the first application. Repeat process a third time if sanding or polishing post cure.
- Vertical Surface Application: Depending on the area needing to be sealed, the paint tray may need to be refilled, and if that is the case, be sure to first re-mix the container holding the mix before refilling the tray well making sure that there is no build-up of solids on the bottom by scraping it with the paint stick and making sure there is no build-up stuck on the end.

HINT: If the back-rolling with a dry foam roller doesn't effectively pop all of the air bubbles, the surface will dry-down to a slightly rougher finish than desired, which will require additional finishing work. This could include a resurfacing with a light abrasive pad after the coating has cured sufficiently. Adding this step can create a less uniform finished result due to the manual abrasion process. By being too aggressive with the abrasive pad or resurfacing before effective curing has taken place, it may compromise the complete stain and etch protection of the stone surface.

Step 6: Post Application Curing

Minutes after Application	Action	Notes
5 - 10 minutes	Movement from horizontal to vertical	In case of industrial application this is the minimum time to keep the surface horizontal before being able to movement them into a vertical staging
2 hours	First curing/ safe to touch	If necessary a slight manual buff with ultra fine scotch pad can be applied to remove roughness
6-8 hours (at a min of 70°F)	Sand it to hone finish	Minimum time to wait before using a sanding machine with a 1500 grit pads to create hone finish
24-48 hours	Bring it to a polish	Minimum wait time before starting the process of bringing the surface to a high gloss finish. The longer time you wait the better finish you can expect (due to higher superficial hardness)

NOTE: This time schedule is highly dependent on air temperature and humidity. It was made assuming an ambient temperature of at least 75°F and a relative humidity of less than 35-40 %. The higher the temperature and the lower the humidity, the shorter the minimum time to wait will be. The opposite is also true. Use this as a generic time frame reference only.

SURFACE CARE AND MAINTENANCE

Suggested Sequence for “Honed/Matte” Finish

We recommend the use of a professional orbital sanding machine similar to FESTOOL sander with dust vacuum removal capability.

After the surface is completely dry, cured and cleaned, use a **1000 3M trizact™ pad** using zero or a very light pressure and for a minimum amount of time (do not pass more than 2 times over the same spot). The same effect could be probably achieved with different manufacturer pads, with similar grit. We recommend to test them first on a small sample tile if not sure of the final results.

Suggested Sequence for High Gloss Finish

We recommend the use of a professional orbital sanding machine similar to FESTOOL sander with dust vacuum removal capability.

After the surface is completely dry, cured and cleaned, use in this sequence:

1000 3M trizact™ pad

3000 3M trizact™ pad

5000 3M trizact™ pad

8000 3M trizact™ pad

Additional polish compound (like MPA 11010 festool anti hologram paste) can be used with a microfiber pad and finishing it off with extra fine sponge pad, although the final result just with the pads is usually enough.

Make sure to use zero pressure (just the weight of the sander is enough to achieve perfect results) and for a minimum amount of time (do not pass more than 2 times over the same spot).

Step 7: Storage and Clean Up

Leftover coating that has been mixed is still usable at a later time provided that it gets thoroughly re-mixed prior to use, including physically scraping any hard-pack settling stuck on the container bottom, and then continually mixing it until all has gone back into suspension; if desired, this material can be filtered prior to re-use to better insure no un-mixed material gets through and detracts from the new surface finish.

Formula 131 does not contain any regulated hazardous materials; the application tools can be washed with water while they are still wet, or soaked in a chemical stripper followed by rinsing in water for reuse, or disposed of in the normal trash.

All containers must be closed tightly and stored out of direct sunlight, at room temperature and kept from freezing.

Surface Care and Cleaning:

- To clean, use any ordinary household cleaner. For best results, a liquid, non-abrasive, non-alkaline cleaner is recommended.
- Liquid abrasive household cleaners should only be used after being tested in a small area to ensure no damage results.
- **DO NOT** clean with scouring pads, steel wool, or other abrasive implements.
- Cleaners containing ammonia, bleach or other harsh chemicals, such as acetone, should be wiped up shortly.

Maintenance and Surface Repair:

- To remove minor scuff marks from everyday wear of the surface, use a dry Magic Eraser to lightly rub away any surface level blemishes.
- For continued maintenance of the surface appearance we recommend using a household Granite and Stone Clean & Shine product applied weekly.
- In the event of a scratch that has compromised the coating barrier, the coating can be repaired using Formula 131 spot treatment. Contact your installer for assistance.

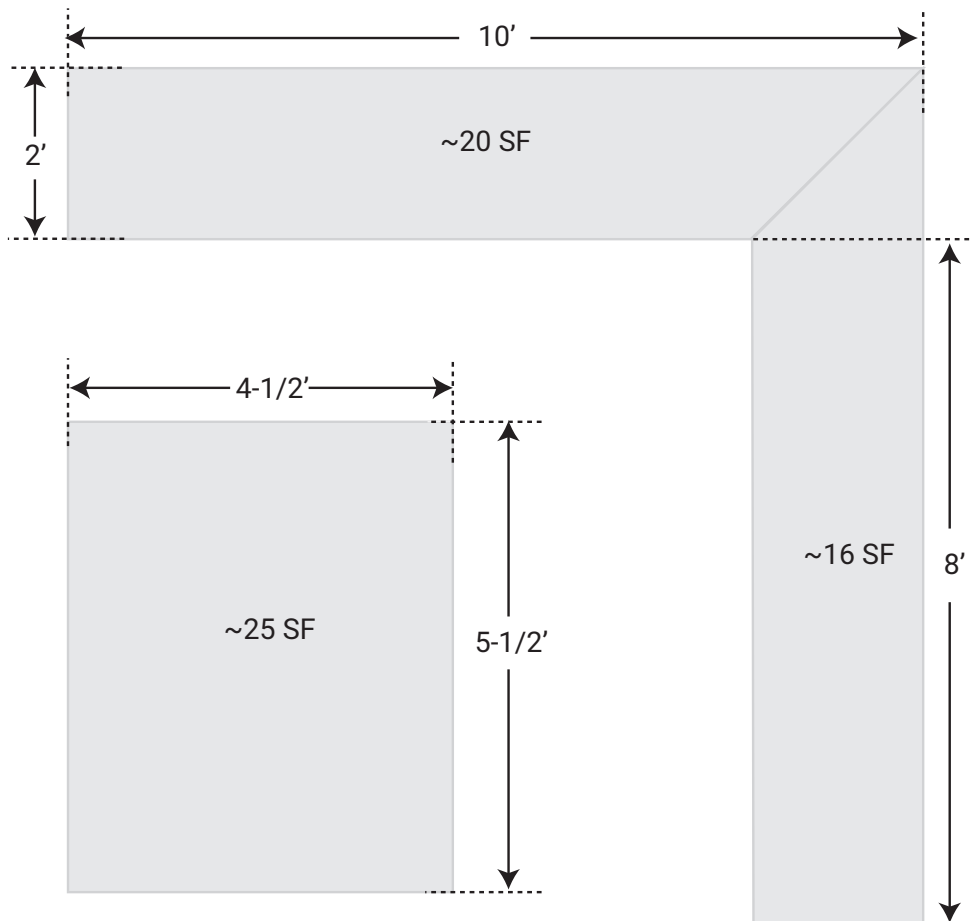
ESTIMATING SURFACE VOLUME

Estimating the volume of Formula 131 needed for your stone surface:

Before starting the coating application, calculate the volume of F131 needed based on the calculated area of surface to be sealed. F131 typically will coat ~250 square feet +/- per gallon of combined sealer, somewhat dependent on the porosity and finish of the stone. See chart on page 14 for application volume break down.

Example of Volume Calculation: If fabricated 4 sets of countertops that measure 2 feet wide X 18 feet of combined length and complimentary island surfaces measuring 4-1/2 feet X 5-1/2 feet that need to be coated:

4 X Total 61 SF each set = 244 SF :- 250 SF/Gallon = almost 1 full gallon



SEALER CALCULATION CHART

Volume weight guide for mixing Formula 131 Sealer based on small demonstrations and test desired surface area to seal:

FOR US APPLICATIONS -VOLUME			
SURFACE AREA TO BE SEALED (SF)	TOTAL US VOLUME OF SEALER TO BE MIXED	VOLUME OF <u>PART B</u> TO ADD TO MIX CONTAINER	VOLUME OF <u>PART A</u> TO ADD TO MIX CONTAINER
<65	1 QUART	1/2 PINT	1-1/2 PINTS
< 125	1/2 GALLON	1 PINT	1-1/2 QUARTS
< 250	1 GALLON	1 QUART	3 QUARTS
375	1-1/2 GALLONS	1-1/2 QUARTS	1 GAL + 1 PINT
500	2 GALLONS	1/2 GALLON	1-1/2 GALLONS

FOR EUROPEAN APPLICATIONS-VOLUME			
SURFACE AREA TO BE SEALED (M2)	TOTAL METRIC VOLUME OF SEALER TO BE MIXED	VOLUME OF <u>PART B</u> TO ADD TO MIX CONTAINER	VOLUME OF <u>PART A</u> TO ADD TO MIX CONTAINER
< 5	1 litre	250 mls	750 mls
10	1.6 litres	400 mls	1200 mls
20	3.25 litres	810 mls	2440 mls
35	5.7 litres	1425 mls	4.275 ltrs
50	8 litres	2 litres	6 litres

If preferred, mixing make-up can be done by weight rather than volume:

NOTE: Part B is slightly heavier per volume than Part A. Part B = 9.2 lbs./gal vs. Part A = 8.7 lbs.gal OR Part B = 1,100 grams per liter vs. Part A 1,043 grams per liter

FOR US APPLICATIONS-WEIGHT			
SURFACE AREA TO BE SEALED (SF)	TOTAL US WEIGHT (lbs.) OF SEALER TO BE MIXED	WEIGHT OF <u>PART B</u> (lbs.) TO ADD TO MIX CONTAINER	WEIGHT OF <u>PART A</u> (lbs.) TO ADD TO MIX CONTAINER
<65	2.2	0.58	1.63
< 125	4.4	1.15	3.26
< 250	8.8	2.3	6.5
375	13.2	3.45	9.8
500	17.6	4.6	13.1

FOR EUROPEAN APPLICATIONS-WEIGHT			
SURFACE AREA TO BE SEALED (M2)	TOTAL METRIC WEIGHT (g) OF SEALER TO BE MIXED	WEIGHT (g) OF <u>PART B</u> TO ADD TO MIX CONTAINER	WEIGHT (g) OF <u>PART A</u> TO ADD TO MIX CONTAINER
< 5	1,055	275	780
10	1,690	440	1,250
20	3,430	890	2,545
35	6,010	1,560	4,450
50	8,435	2,200	6260

SAFETY DATA SHEETS

PART A

Section 1. Product and Company Identification

Product Name: **FORMULA 131-PART A**
Chemical Name/Family: Acrylic urethane based prepolymers, monomers and additives in water with activator
CAS No.: Trade Secret
Product Use: Coating on natural stones when mixed with PART B
Developer Company: Formula 131 LLC
Address: 92 Park Street, Rutland VT 05701
Telephone: 802 773-1228
Fax: 802 773-1171
24 Hour Emergency Number: 802 773-1228
24 Hour Chemtrec Number: N/A

Section 2. Hazards Identification

GHS Classification

Hazard Class 1

Category N/A

GHS Label:

Symbol: N/A

Signal Word: N/A

Hazard Classification:**Hazard Statement:**

This product is not considered as Hazardous per OSHA.

Precautionary Statement:

Prevention - N/A

Response - N/A

Storage - Floor Surface of storage place should be made of non-perishable material

Disposal-in accordance with local regulations

SAFETY DATA SHEETS - PART A

Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent
Butyl carbitol		12.3
Acrylic and urethane prepolymer		60.0 to 65.0
Additives and monomers		7.0 to 10.0

Section 4. First Aid Measures

Skin Contact:	Use personal protective clothing as needed by the circumstance of use. Wash thoroughly with soap and water.
Eye Contact:	Safety glasses, goggles, face shields.
Inhalation:	If exposed to fumes from overheating, move to fresh air. Consult with a physician if needed.
Ingestion:	Get medical help.

Section 5. Firefighting Measures

Specific Hazards in Case of Fire:	None
Fire Extinguishing Media:	Use dry chemical, alcohol resistant foam, water spray or carbon dioxide surrounding fire.
Unsuitable Extinguishing Media:	None
Special Protective Equipment and Precaution for Firefighters:	Wear self contained breathing apparatus in confined areas or when exposed to combustion products.
Unusual Fire & Explosion Hazards:	Do not use heavy water stream

Section 6. Accidental Release Measures

Personal Precautions: Protective Equipment:	Use personal protective clothing Wear appropriate mask, goggles and gloves to avoid contact with eyes and skin.
Environmental Precautions:	Prevent entry into sewers and public water
Methods and Materials for Containment and Cleaning up:	Take up with absorbent material (e.g. sand, general purpose binder)

Section 7. Handling and Storage

Handling Conditions:	Wear appropriate mask, goggles and gloves. Hands should be washed thoroughly with soap and water.
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Section 8. Exposure Control/Personal Protection

Exposure Limits:	N/D
Appropriate engineering controls:	If spraying, use with appropriate local exhaust ventilation.
Personal protective equipment:	
Respiratory Protection:	Ventilation, local exhaust.
Hand Protection:	Impermeable gloves.
Eye Protection:	Safety glass, goggles, face shield.
Skin and Body Protection:	Use personal protective clothing as needed by the circumstance of use.
Other Protective Equipment:	N/D
Hygiene Measures:	N/D

Section 9. Physical and Chemical Properties

Physical State:	Liquid	
Color:	White	
Odor:	Characteristic odor of emulsion.	
Odor Threshold:	N/A	
% Non-volatile by Weight:	N/A	
pH:	8	
Specific Gravity (77°F):	1.04	weight per gallon 8.7 lbs/gallon
% Volatile by Weight:	N/A	
Melting Point:	N/A	
Freezing Point:	Below 32°F	
Boiling point:	212°F	
Flash Point:	N/D	
Evaporation Rate (BuAc=1):	N/D	
Flammability:	Non flammable	
Explosion Limits:	N/A	
Vapor Pressure (mmHg):	N/A	
Vapor Density (Air=1):	N/A	
Solubility:	Soluble with water	
Partition Coefficient:	N/A	
Auto-ignition Temperature:	N/D	
Temperature:	60-80°F	
Viscosity:	35 seconds in Zahn cup 1	
Decomposition Temperature:	N/D	

SAFETY DATA SHEETS - PART A

Section 10. Stability and Reactivity

Chemical Stability:	Stable under normal temperature and pressure.
Hazardous Polymerization:	May not occur.
Conditions to Avoid:	Overheating and freezing.
Incompatible Materials:	Strong acid and bases
Hazardous Decomposition Products:	In a fire situation, hydrogen chloride, hydrogen fluoride, carbon monoxide, carbon dioxide may be liberated.

Section 11. Toxicological Information

Primary Routes of Entry:

Eye:		Skin:		Inhalation:		Ingestion:	
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Potential Health Effects:

Inhalation	N/E
Ingestion:	N/E
Skin:	N/E
Eyes:	N/E

Signs and Symptoms of

Exposures:	N/E
Acute Toxicity:	N/E
Chronic Toxicity:	N/E
Respiratory or Skin	N/E
Sensitization:	
Mutagenicity:	N/E
Carcinogenicity:	

IARC:	No	NTP:	No	OSHA:	No
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Section 12. Ecological Information

Ecotoxicity (Aquatic and Terrestrial):	N/E
Bioaccumulative Potential	N/E
Mobility in Soil:	N/E
PBT and vPvB Assessment:	N/E
Other Adverse Effects:	N/E

Section 13. Disposal Considerations

Product:	Comply with all federal, state and local regulations.
Disposing of Contaminated Packaging:	Comply with all federal, state and local regulations.

Section 14. Transport Information

Land Transport (DOT):

UN Number:	N/A
UN Proper Shipping Name:	N/A
Transport Hazard Class:	Not classified.
Packing Group:	Not classified.

Sea Transport (IMDG):

UN Number:	N/A
UN Proper Shipping Name:	N/A
Transport Hazard Class:	N/A
Packing Group:	N/A

Air Transport (IATA):

UN Number:	N/A
UN Proper Shipping Name:	N/A
Transport Hazard Class:	N/A
Packing Group:	N/A

Environmental Hazards (e.g., Marine pollutant): No

Section 15. Regulatory Information

International Inventories:

TSCA (USA):	N/E
DSL (Canada):	N/E
ENCS (Japan)	N/E
REACH (Europe):	N/E
IECSC (China):	N/E
KECL (Korea):	N/E
PICCS (Philippines):	N/E
AICS (Australia):	N/E
ERMA (New Zealand):	N/E

Federal Regulations:

SARA 313:	N/A
SARA 311/312:	
Clean Water Act:	
Clean Air Act, Section 112 HAPs (See 40CFR61):	N/A

State Regulations:

Massachusetts Right to Know Components:	N/A
New Jersey Right to Know	N/A

SAFETY DATA SHEETS - PART A

Components:
Pennsylvania Right to Know N/A
Components:
California Proposition 65: N/A

Section 16. Other Information

NFPA Rating

Health Hazard: Excessive exposure to vapors or spray mist may cause headache, dizziness. If ingested get medical attention immediately.

Fire Hazard: Fire fighters and other exposed to vapors of combustion should wear self contained breathing apparatus.

Reactivity Hazard: None

- N/E: Not Established
- N/A: Not Applicable
- N/D: No Data
- ACGIH: American Conference of Governmental Industrial Hygienists
- T.C.C: Tag Closed Cup
- C.O.C.: Cleveland Open Cup

SAFETY DATA SHEETS

PART B

SAFETY DATA SHEETS - PART B

Section 1. Product and Company Identification

Product Name: **FORMULA #131-PART B**
Chemical Name/Family: Fluoropolymer and diluent in water-to be mixed with Part A
CAS No.: Trade Secret
Product Use: Coating on natural stones when mixed with PART A
Developer Company: Formula 131 LLC
Address: 92 Park Street, Rutland VT 05701
Telephone: 802 773-1228
Fax: 802 773-1171
24 Hour Emergency Number: 802 773-1228
24 Hour Chemtrec Number: N/A

Section 2. Hazards Identification

GHS Classification

Hazard Class 1

Category N/A

GHS Label:

Symbol: N/A

Signal Word: N/A

Hazard Classification:

Hazard Statement:

This product is not considered as Hazardous per OSHA.

Precautionary Statement:

Prevention - N/A

Response - N/A

Storage - Floor Surface of storage place should be made of non-perishable material

Disposal-in accordance with local regulations

Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent
Butyl carbitol	112-34-5	12.3
Fluoropolymer	Proprietary blend	20.0 to 25.0
Fluoro prepolymers	Proprietary blend	Less than 1%

Section 4. First Aid Measures

Skin Contact:	Use personal protective clothing as needed by the circumstance of use. Wash thoroughly with soap and water.
Eye Contact:	Safety glasses, goggles, face shields.
Inhalation:	If exposed to fumes from overheating, move to fresh air. Consult with a physician if needed.
Ingestion:	Get medical help.

Section 5. Firefighting Measures

Specific Hazards in Case of Fire:	None
Fire Extinguishing Media:	Use dry chemical, alcohol resistant foam, water spray or carbon dioxide surrounding fire.
Unsuitable Extinguishing Media:	None
Special Protective Equipment and Precaution for Firefighters:	Wear self contained breathing apparatus in confined areas or when exposed to combustion products.
Unusual Fire & Explosion Hazards:	Do not use heavy water stream

Section 6. Accidental Release Measures

Personal Precautions:	Use personal protective clothing
Protective Equipment:	Wear appropriate mask, goggles and gloves to avoid contact with eyes and skin.
Environmental Precautions:	Prevent entry into sewers and public water
Methods and Materials for Containment and Cleaning up:	Take up with absorbent material (e.g. sand, general purpose binder)

Section 7. Handling and Storage

Handling Conditions:	Wear appropriate mask, goggles and gloves. Hands should be washed thoroughly with soap and water.
Storage Conditions:	Storage place should be constructed of non-perishable material

SAFETY DATA SHEETS - PART B

Section 8. Exposure Control/Personal Protection

Exposure Limits:	N/D
Appropriate engineering controls:	If spraying, use with appropriate local exhaust ventilation.
Personal protective equipment:	
Respiratory Protection:	Ventilation, local exhaust.
Hand Protection:	Impermeable gloves.
Eye Protection:	Safety glass, goggles, face shield.
Skin and Body Protection:	Use personal protective clothing as needed by the circumstance of use.
Other Protective Equipment:	N/D
Hygiene Measures:	N/D

Section 9. Physical and Chemical Properties

Physical State:	Liquid
Color:	Milky White
Odor:	Characteristic odor of emulsion.
Odor Threshold:	N/A
% Non-volatile by Weight:	N/A
pH:	Greater than 6
Specific Gravity (77°F):	1.10 weight per gallon 9.2 lbs/gallon
% Volatile by Weight:	N/A
Melting Point:	N/A
Freezing Point:	Below 32°F
Boiling point:	212°F
Flash Point:	N/D
Evaporation Rate (BuAc=1):	N/D
Flammability:	Non flammable
Explosion Limits:	N/A
Vapor Pressure (mmHg):	N/A
Vapor Density (Air=1):	N/A
Solubility:	Miscible in water
Partition Coefficient:	N/A
Auto-ignition Temperature:	N/D
 60-80°F	
Viscosity:	40 seconds in Zahn cup 1
Decomposition Temperature:	N/D

Section 10. Stability and Reactivity

Chemical Stability:	Stable under normal temperature and pressure.
Hazardous Polymerization:	May not occur.
Conditions to Avoid:	Overheating and freezing.
Incompatible Materials:	Strong acid and bases
Hazardous Decomposition Products:	In a fire situation, hydrogen chloride, hydrogen fluoride, carbon monoxide, carbon dioxide may be liberated.

Section 11. Toxicological Information
Primary Routes of Entry:

Eye:		Skin:		Inhalation:		Ingestion:	
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Potential Health Effects:

Inhalation	N/E
Ingestion:	N/E
Skin:	N/E
Eyes:	N/E

Signs and Symptoms of
Exposures: N/E

Acute Toxicity: N/E

Chronic Toxicity: N/E

Respiratory or Skin N/E

Sensitization:
Mutagenicity: N/E

Carcinogenicity:

IARC:	No	NTP:	No	OSHA:	No
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Section 12. Ecological Information

Ecotoxicity (Aquatic and Terrestrial):	N/E
Bioaccumulative Potential	N/E
Mobility in Soil:	N/E
PBT and vPvB Assessment:	N/E
Other Adverse Effects:	N/E

Section 13. Disposal Considerations

Product:	Comply with all federal, state and local regulations.
Disposing of Contaminated Packaging:	Comply with all federal, state and local regulations.

SAFETY DATA SHEETS - PART B

Land Transport (DOT):

UN Number:	N/A
UN Proper Shipping Name:	N/A
Transport Hazard Class:	Not classified.
Packing Group:	Not classified.

Sea Transport (IMDG):

UN Number:	N/A
UN Proper Shipping Name:	N/A
Transport Hazard Class:	N/A
Packing Group:	N/A

Air Transport (IATA):

UN Number:	N/A
UN Proper Shipping Name:	N/A
Transport Hazard Class:	N/A
Packing Group:	N/A

Environmental Hazards (e.g., Marine pollutant):	No
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Section 15. Regulatory Information

International Inventories:

TSCA (USA):	N/E
DSL (Canada):	N/E
ENCS (Japan)	N/E
REACH (Europe):	N/E
IECSC (China):	N/E
KECL (Korea):	N/E
PICCS (Philippines):	N/E
AICS (Australia):	N/E
ERMA (New Zealand):	N/E

Federal Regulations:

SARA 313:	N/A
SARA 311/312:	
Clean Water Act:	
Clean Air Act, Section 112 HAPs (See 40CFR61):	N/A

State Regulations:

Massachusetts Right to Know Components:	N/A
New Jersey Right to Know	N/A

Components:
 Pennsylvania Right to Know N/A
 Components:
 California Proposition 65: N/A

Section 16. Other Information

NFPA Rating

Health Hazard: Excessive exposure to vapors or spray mist can cause headache, dizziness. If ingested get medical attention immediately.

Fire Hazard: Fire fighters and other exposed to vapors of combustion should wear self contained breathing apparatus.

Reactivity Hazard: None

- N/E: Not Established
- N/A: Not Applicable
- N/D: No Data
- ACGIH: American Conference of Governmental Industrial Hygienists
- T.C.C: Tag Closed Cup
- C.O.C.: Cleveland Open Cup

