

GARAGE FORCE



Welcome to Garage Force!

Cyclospartic

- > CYCLOSPARTIC IS THE LATEST ADVANCEMENT IN COATING TECHNOLOGY, IMPROVING ON THE FOUNDATIONAL POLYUREA AND POLYASPARTIC COATINGS.
- > POLYUREA HAS BEEN UTILIZED FOR OVER 35 YEARS IN INDUSTRIAL APPLICATIONS SUCH AS PIPE/ PIPELINE COATINGS, TANK LININGS, WATER TREATMENT PLANTS, MANHOLES, SEWER LININGS AND AUTOMOTIVE FASCIA OEM MOLDED PARTS. TRADITIONAL POLYUREA CURES IN 5-15 SECONDS AND MUST BE SPRAY APPLIED TO ENSURE PROPER INSTALLATION. THESE KINDS OF COATINGS WERE ORIGINALLY DEVELOPED AND USED IN THE EARLY 1990'S.
- > CYCLOSPARTIC TECHNOLOGY PROVIDES BETTER ADHESION, CHEMICAL AND MOISTURE RESISTANCE, WHILE PROVIDING EXCELLENT WORKING AND CURE TIMES.
- > CYCLOSPARTIC COATINGS ARE EXCLUSIVE TO GARAGE FORCE

CycloSpartic™ Coating Systems

A Molecular Evolution in Technology

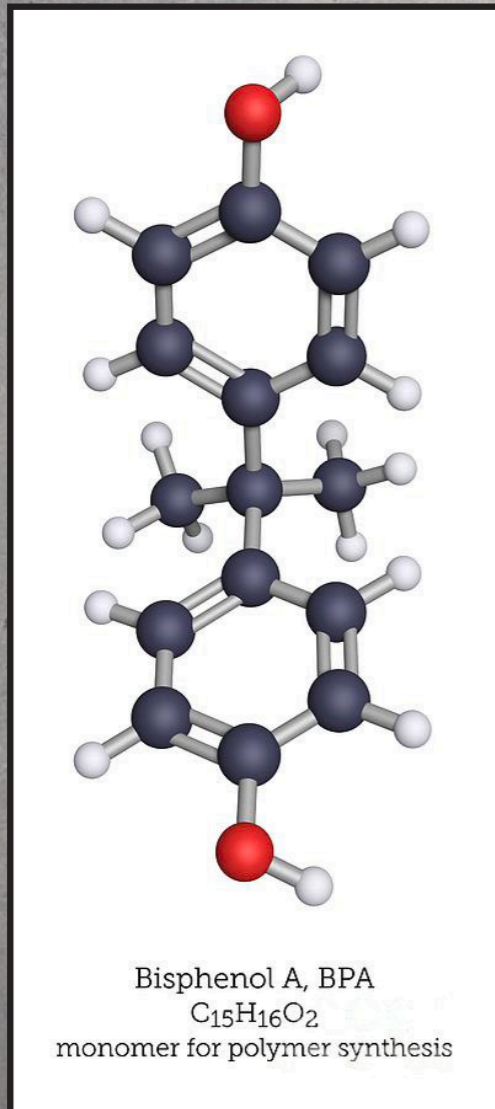


> EPOXY

EPOXY =

BISPHELOL A + EPOXIDE

> EPOXY



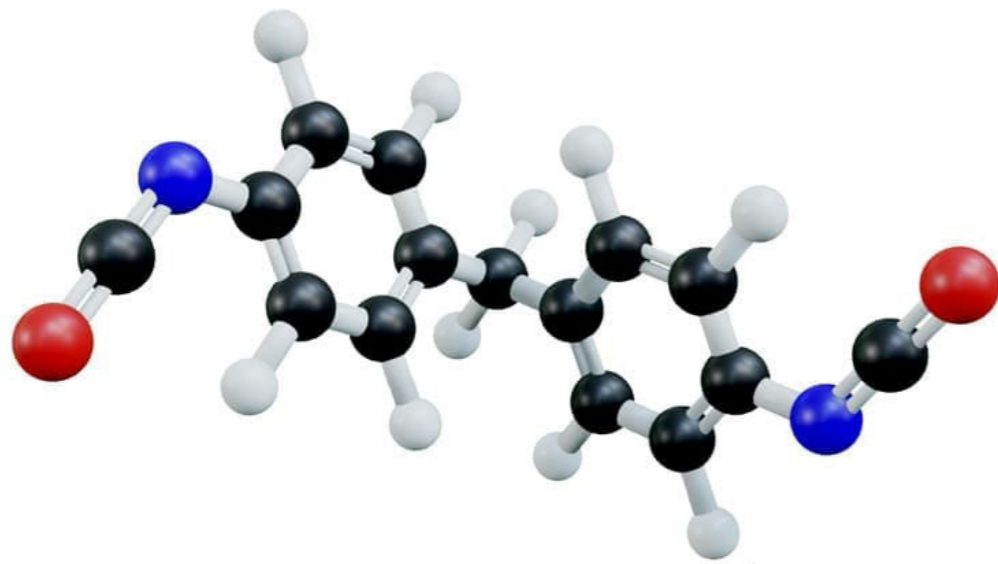
> Polyurea / Polyaspartic

POLYUREA / POLYASPARTIC =

MDI / HDI + POLYALL

> MDI / HDI

MDI Molecule

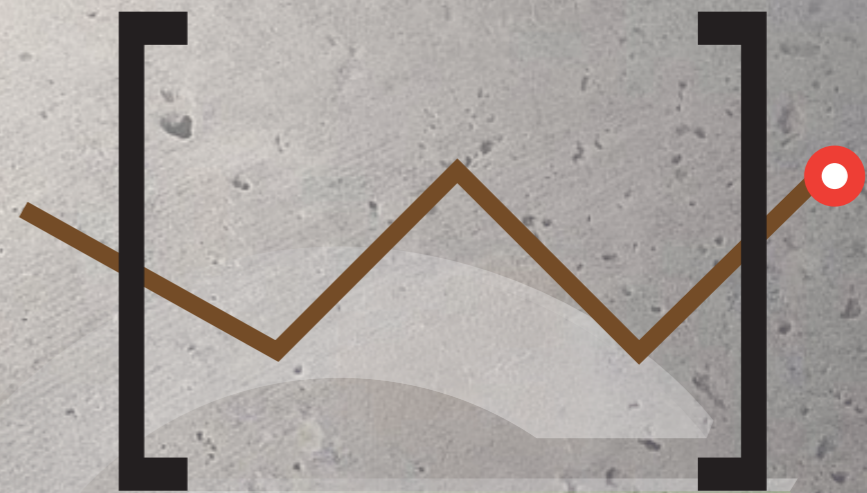
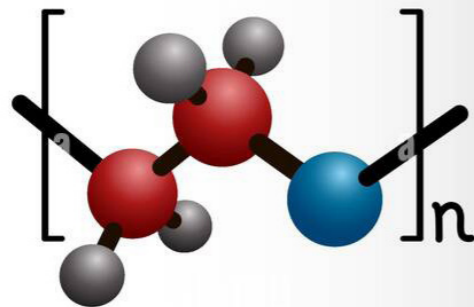
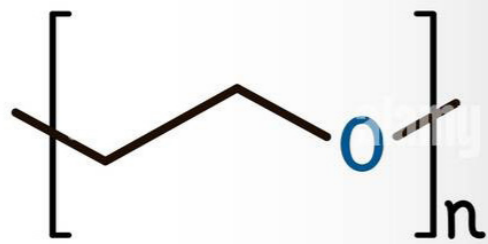


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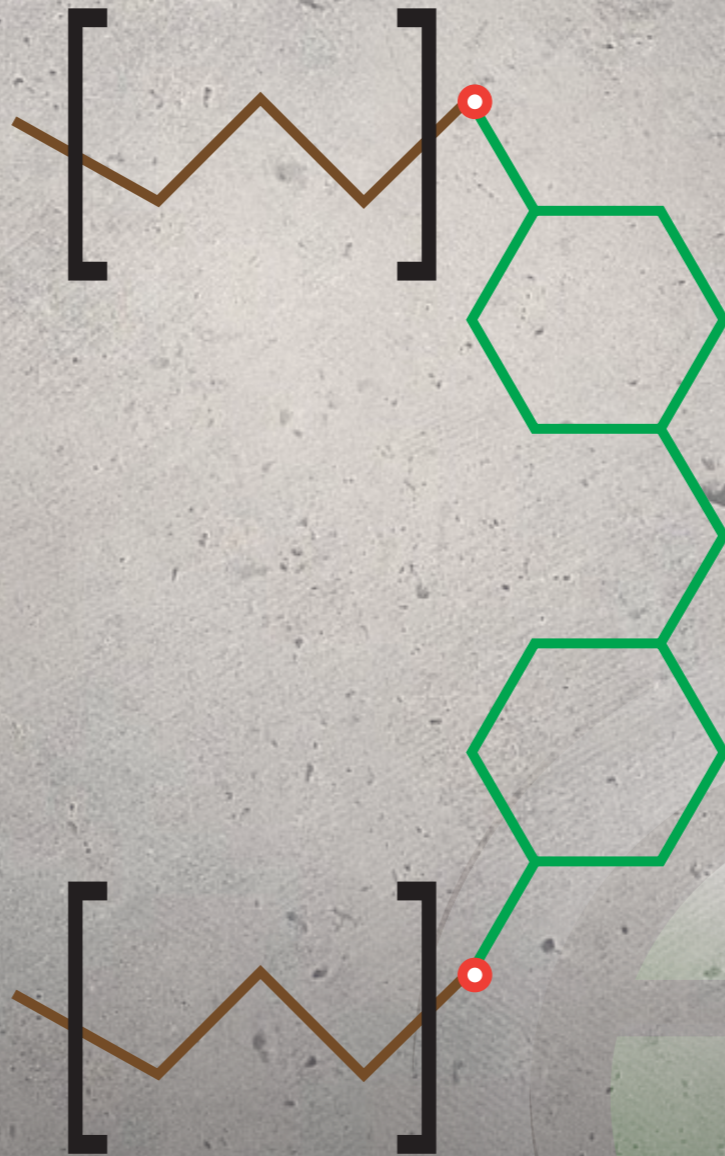


> Polyall

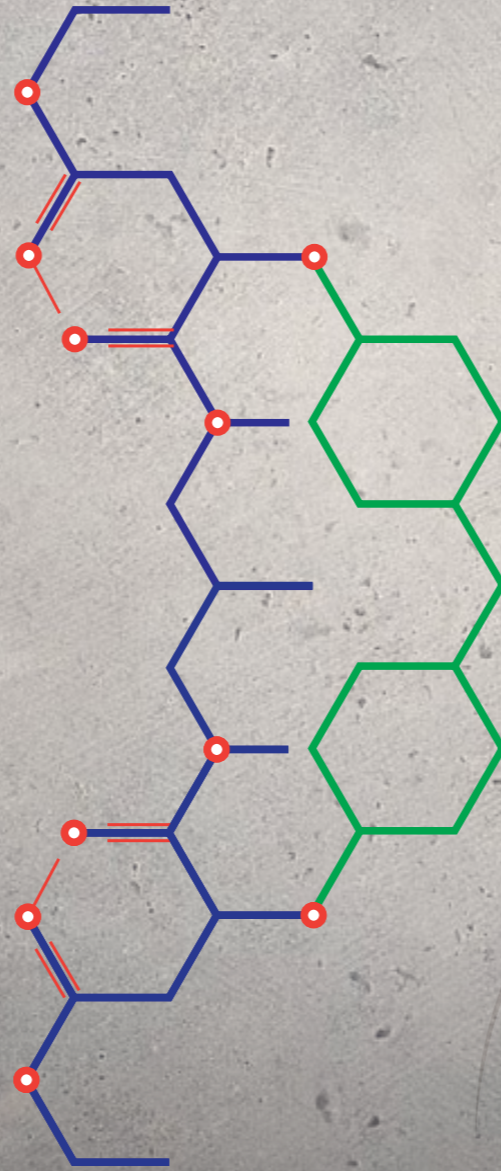
Polyethylene glycol



> Polyurea / Polyaspartic

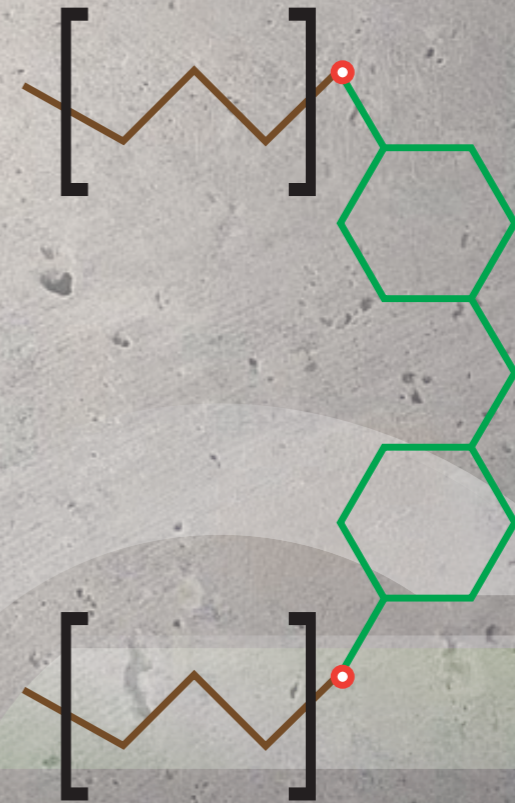
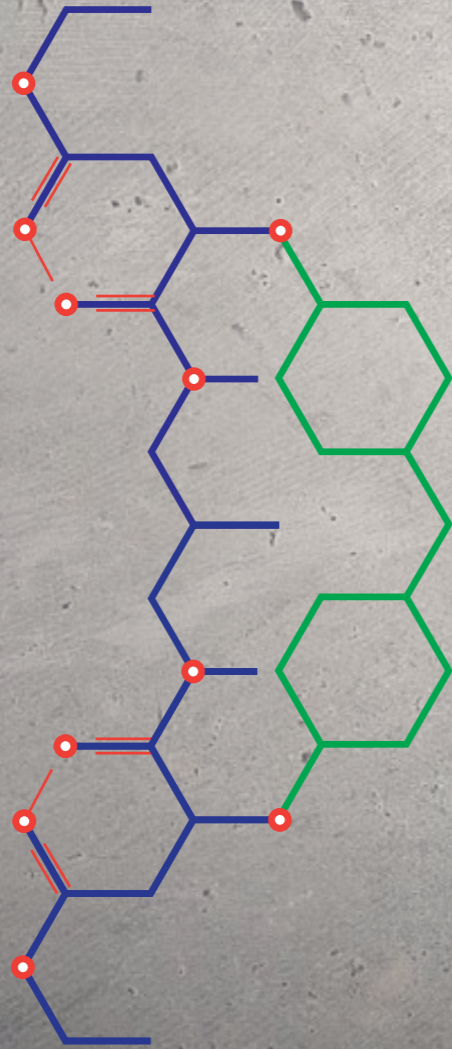


> CycloSpartic™ Coating



NEW TECHNOLOGY

OLD TECHNOLOGY





Basic Installation Steps

- Measure Area
- Test for Moisture
- Prepare Concrete
- Install Coatings
- Clean up

Moisture Mitigation

Moisture Mitigation

- > Garage Force recommends the use of hand held moisture meter to test garage slabs and other residential applications. It is a non-invasive meter that does not require any drilling or waiting for results. Place the meter on a level concrete floor and push down, this will give you an accurate reading inside the concrete, not just on the surface. This particular moisture meter will read between 0-6.9 % moisture content. Any readings “maxing out” the dial will indicate definite moisture problems.
- > If the moisture meter reads more than 4.5% moisture content, Garage Force requires application of Dry Coat Pro to create a vapor barrier. This will stop vapor drive and provide a better, stronger substrate for coatings. Garage Force recommends testing with calcium chloride tests to get a cumulative number in lbs./1000sf/24 hours to ensure Dry Coat Pro is a suitable solution.

Moisture Mitigation

- > **Moisture Meter**
 - > Test every floor when quoting and day of install
 - > If reading is over 4.5% on moisture meter use Calcium Chloride Test
 - > Use Calcium Chloride Test on all floors over 2000 sq/ft
- > Over 9lbs moisture vapor transmission (MVT) will require moisture mitigation

Moisture Mitigation

- > **Dry Coat Pro**
 - > Holds back up to 20lbs MVT
 - > Can be installed on high PH (Alkaline) floors

- > Less than 2% of floors need it

Moisture Mitigation



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Moisture Mitigation



PH Testing

- > Use supplied PH pencil
 - > If high use moisture mitigation product
 - > If low use a baking soda/TSP wash
 - > May also use pool test strips

Concrete Preparation

Concrete Preparation

- REMOVE EFFLORESCENCE AND LAITANCE FROM SUBSTRATE TO BE COATED. LAITANCE AND EFFLORESCENCE ARE TWO TERMS THAT ARE OFTEN CONFUSED WITH EACH OTHER, ALTHOUGH THEY ARE DISTINCTLY DIFFERENT. LAITANCE OCCURS DURING THE CONCRETE PLACEMENT, FINISHING AND CURING PROCESS. EFFLORESCENCE OCCURS MUCH LATER AFTER THE CONCRETE HAS CURED AND SETTLED. FOR ANY COATINGS OPERATION, CHECKING FOR AND REMEDYING ALL ISSUES WITH LATENCY AND EFFLORESCENCE WILL LEAD TO LONG TERM COATING ADHESION. IF THESE THINGS ARE OVERLOOKED, PROBLEMS WITH DELAMINATION AND PEELING CAN OCCUR IN THE FUTURE.

Efflorescence

> EFFLORESCENCE IS WHITE CRYSTALLINE OR POWDERY DEPOSIT ON THE SURFACE OF CONCRETE. IT IS A RESULT OF LIME (OR CALCIUM HYDROXIDE) LEACHING OUT OF A PERMEABLE CONCRETE MASS OVER TIME, WHICH REACTS WITH CARBON DIOXIDE AND AIRBORNE ACID POLLUTANTS. EFFLORESCENCE OFTEN OCCURS WHERE WATER HAS LEAKED INTO THE CONCRETE, AND OFTEN SHOWS ITSELF AS A WHITE CRYSTALLINE DEPOSIT AROUND THE CRACK OR PINHOLE. THIS RAISES THE QUESTION ON HOW TO PREVENT EFFLORESCENCE RE- OCCURRING. THE SOURCE OF THE EFFLORESCENCE (WATER INGRESS), INTO CONCRETE NEEDS TO BE IDENTIFIED AND PLUGGED, PRIOR TO ANY SURFACE PREPARATION AND COATING OPERATIONS.

Efflorescence



Laitance

- > LAITANCE IS A WEAK, EASILY-CRUMBLED LAYER ON THE SURFACE OF CONCRETE, CONSISTING OF CEMENT AND FINE AGGREGATES THAT RISE TO THE SURFACE WHEN TOO MUCH WATER IS ADDED. LAITANCE MAY ALSO BE CAUSED BY OVER-TROWELLING, RAIN DAMAGE, OR POOR CURING.
- > THIS LAYER IS NOT ADHERED WELL TO THE CONCRETE PROPERLY, AND MUST BE REMOVED PRIOR TO COATING. FAILURE TO REMOVE THE LAITANCE WILL PREVENT GOOD ADHESION TO THE COATINGS. SUCH "COATING FAILURES" NORMALLY HAVE A THIN LAYER OF CEMENT OR FINES ADHERED TO THE BACK OF THE "FAILED" COATING. IN FACT THIS IS A CONCRETE FAILURE RATHER THAN A COATING FAILURE. LAITANCE IS USUALLY ELIMINATED MECHANICALLY, AS THIN LAYERS ARE BEST REMOVED BY ABRASIVE BLASTING AND/OR DIAMOND GRINDING. WITH THICK LAYERS OF LAITANCE, FILLING MATERIALS MAY BE REQUIRED TO RESTORE THE CONCRETE TO ITS ORIGINAL DIMENSIONS.

Laitance



Concrete Surface Profiles

Concrete Surface Profile Inspection Guide

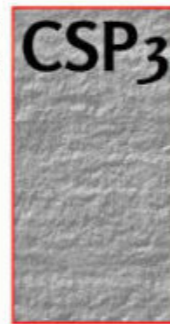
Use this guide to identify the surface profile of your concrete. CSP1 being the indicator for a nearly flat floor and CSP10 indicative of an extremely rough floor. The range of variation will depend on strength, composition, aggregate and finish.



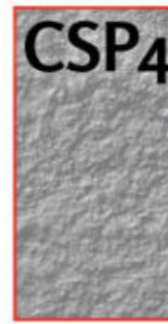
CSP1
Ideal Applications:
• Sealers 0-3mils
Desired Finish Profile: 27 mils
• Wire brush
• Acid etch
Methods:
Tennant scrubber with wire heads or chemical stripper



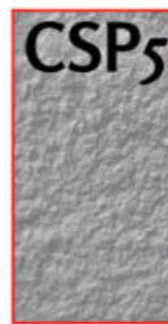
CSP2
Ideal Applications:
• Sealers 0-3mils
• Thin films 4-10mils
Desired Finish Profile: 32 mils
• Diamond grind
Method:
Grinder with 30 grit metal-bond tooling



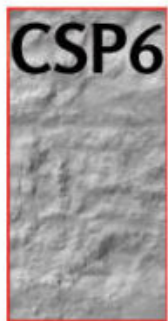
CSP3
Ideal Applications:
• Thin films 4-10mils
• High-build coatings 10-40mils
Desired Finish Profile: 38 mils
• Fine erase
• Diamond shave
• Light blast
Methods:
Grinder with PCDs or shot blaster



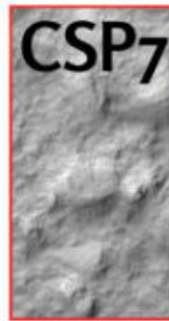
CSP4
Ideal Applications:
• High-build coatings 10-40mils
• Self-leveling toppings 50mils-1/8"
Desired Finish Profile: 50 mils
• Med erase
• Very fine strip/scrape
• Light/med blast
Methods:
Floor grinder with bush hammers, shot blaster or scarifier



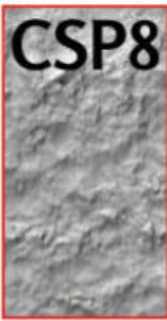
CSP5
Ideal Applications:
• High-build coatings 10-40mils
• Self-leveling toppings 50mils-1/8"
• Polymer overlays 1/8"-1/4"
• Concrete overlays & repair materials 1/4"+
Desired Finish Profile: 66 mils
• Coarse erase
• Fine scarify
• Med blast
• Fine strip/scrape
Methods:
Floor grinder with bush hammers, shot blaster or scarifier



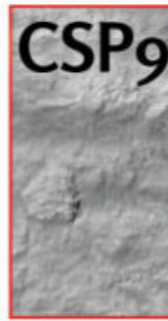
CSP6
Ideal Applications:
• Self-leveling toppings 50mils to 1/8"
• Polymer overlays 1/8" to 1/4"
• Concrete overlays & repair materials 1/4"+
Desired Finish Profile: 125 mils
• Med scarify
• Med-heavy blast
• Med strip/scrape
Methods:
Shot blaster or scarifier



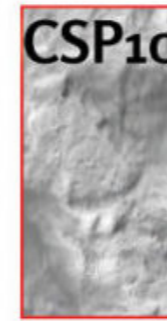
CSP7
Ideal Applications:
• Polymer overlays 1/8"-1/4"
• Concrete overlays & repair materials 1/4"+
Desired Finish Profile: 175 mils
• Med-coarse scarify
• Med-heavy blast
• Med-coarse strip/scrape
Methods:
Shot blaster or scarifier



CSP8
Ideal Applications:
• Polymer overlays 1/8"-1/4"
• Concrete overlays & repair materials 1/4"+
Desired Finish Profile: 210 mils
• Coarse scarify
• Coarse scabble
• Fine plane
Methods:
Scarifier or scabblor



CSP9
Ideal Applications:
• Polymer overlays 1/8"-1/4"
• Concrete overlays & repair materials 1/4"+
Desired Finish Profile: 214 mils
• Very coarse scarify
• Medium plane
Method:
Scarifier



CSP10
Ideal Applications:
• Concrete overlays & repair materials 1/4"+
Desired Finish Profile: >250 mils
• Coarse Plane
Method:
Scarifier





Shotblaster

- > **BLASTING REMOVES ANY LOOSE CONTAMINATION (INCLUDING LAITANCE) FROM THE SURFACE AND EXPOSES SOUND, TIGHTLY ADHERED UNDERLYING CONCRETE/AGGREGATE. CARE MUST BE TAKEN WHEN SELECTING WHAT ABRASIVE SIZE AND TYPE OF BLASTING METHOD TO UTILIZE.**
- > **SHOTBLASTING IS THE PREFERRED METHOD OF CONCRETE PREPARATION. SHOTBLAST EVERYTHING YOU CAN. GRIND ONLY WHEN NEEDED.**



GARAGE



FORCE™

Floor Grinder

> MACHINES WITH DIAMOND IMPREGNATED METAL SEGMENTS ON STEEL DISCS ARE USED COMMONLY ON FLOOR SURFACES TO REMOVE THE TOP LAYER OF THE CONCRETE AND PROFILE THE SURFACE PRIOR TO COATING. CARE MUST BE TAKEN NOT TO ALLOW HIGH POINTS OR EDGES TO FORM WHEN PREPARING THE SURFACE. USUALLY USING MACHINE IN ONE DIRECTION THEN COMING BACK PERPENDICULAR ACROSS THE FIRST SERIES OF CUTS PREVENTS THIS. THERE ARE A NUMBER OF VARYING SEGMENTS THAT ARE DESIGNED TO BE USED FOR DIFFERENT TYPES OF CONCRETE AND COATINGS REMOVAL. USING THE RIGHT TYPE OF DIAMONDS IS ESSENTIAL FOR QUICK, EFFICIENT AND COST EFFECTIVE CONCRETE PREPARATION.



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Hand Grinder

- > USE HAND GRINDER WITH DUST SHROUD TO GRIND AS CLOSE TO THE EDGE OF THE WALL AS POSSIBLE.
- > TAKE CARE TO KEEP GRINDING WHEEL LEVEL SO YOU DON'T LEAVE MARKS ON THE CONCRETE.



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Oscillating Multitool

- > USE OSCILLATING MULTITOOL TO PREP CORNERS AND AREAS WHERE GRINDER CANNOT REACH.
- > THIS TOOL IS GREAT FOR PREPPING AROUND GARAGE DOOR TRACKS AND OTHER TIGHT SPACES.



GARAGE  FORCE™

Dust Collector



- > ALWAYS HAVE A DUST COLLECTOR ATTACHED TO PREP TOOLS WHILE USING THEM.
- > THOROUGHLY VACUUM ENTIRE FLOOR AFTER PREP WORK IS COMPLETE.
- > THOROUGHLY VACUUM ENTIRE FLOOR AFTER SCRAPING AND REMOVING EXCESS CHIP.

Concrete Repair

Repairs

- MINOR REPAIRS
- IF CONCRETE IS TOO BAD IT'S NOT WORTH REPAIRING
- IF CRACKED ONCE, IT MAY CRACK AGAIN
- REPAIRED AREAS CAN SOMETIMES BE NOTICED

Repair Products

- > FAST PATCH – FOR HAIRLINE CRACKS
- > CYCLOSPARTIC CRACK REPAIR

Concrete Repair

Crack Repair

- > FORTIFICATION
- > POLYUREA CRACK REPAIR

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Coating Systems

Full Chip System



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Full Chip System

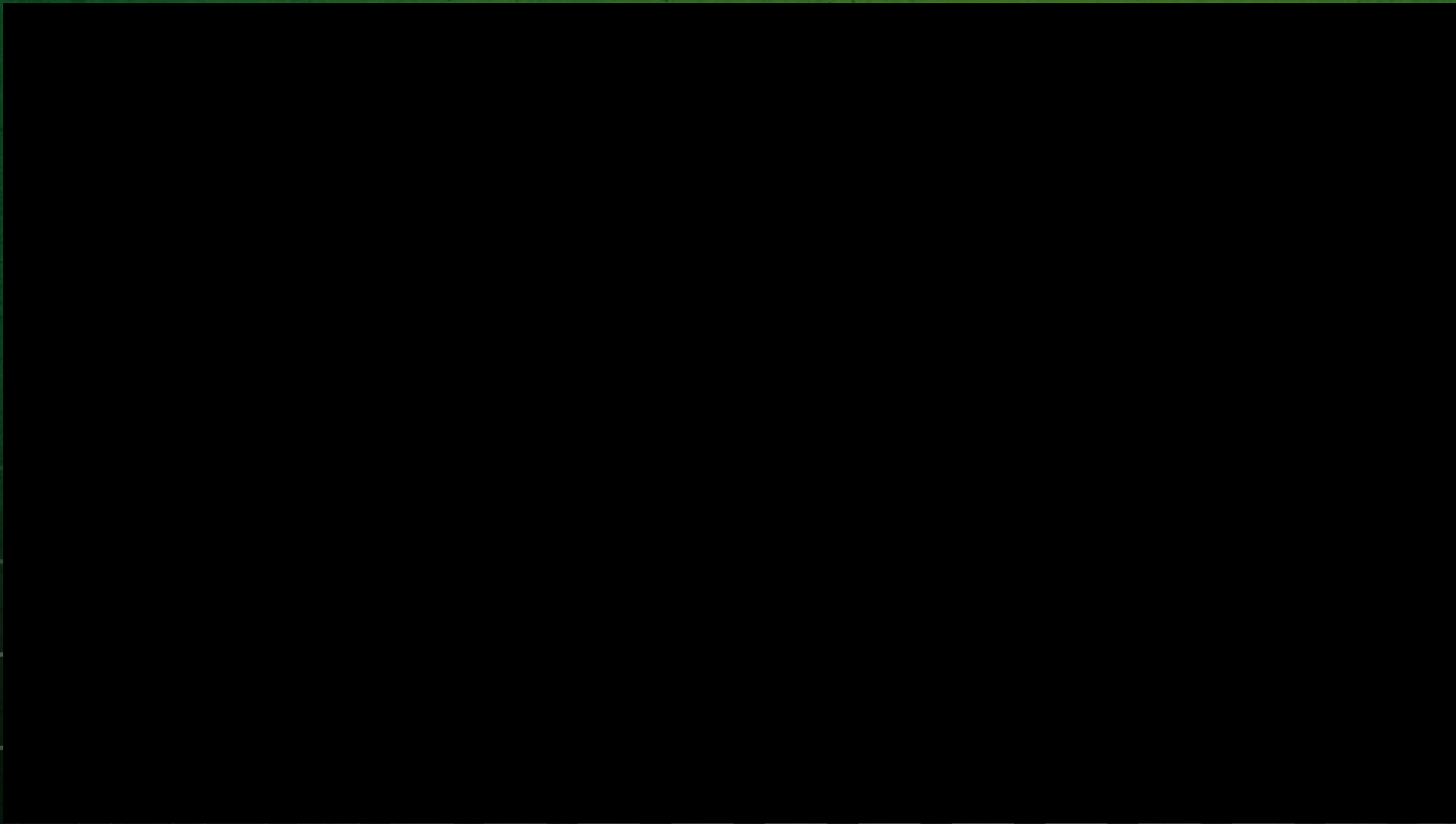
> Topcoat

> Decorative Chip

> Basecoat



Full Chip System



Medici System



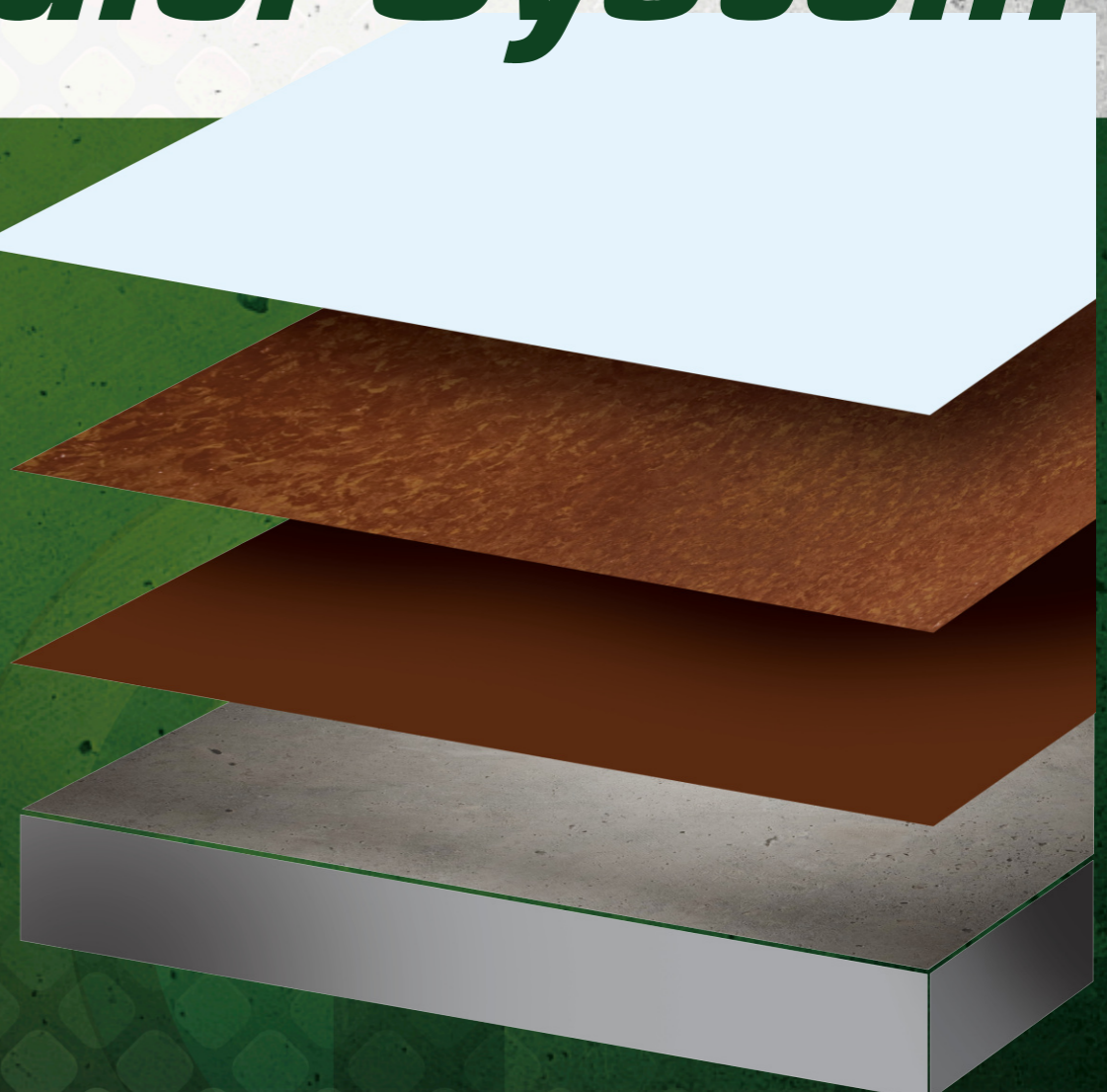
GARAGE  **FORCE™**

Medici System

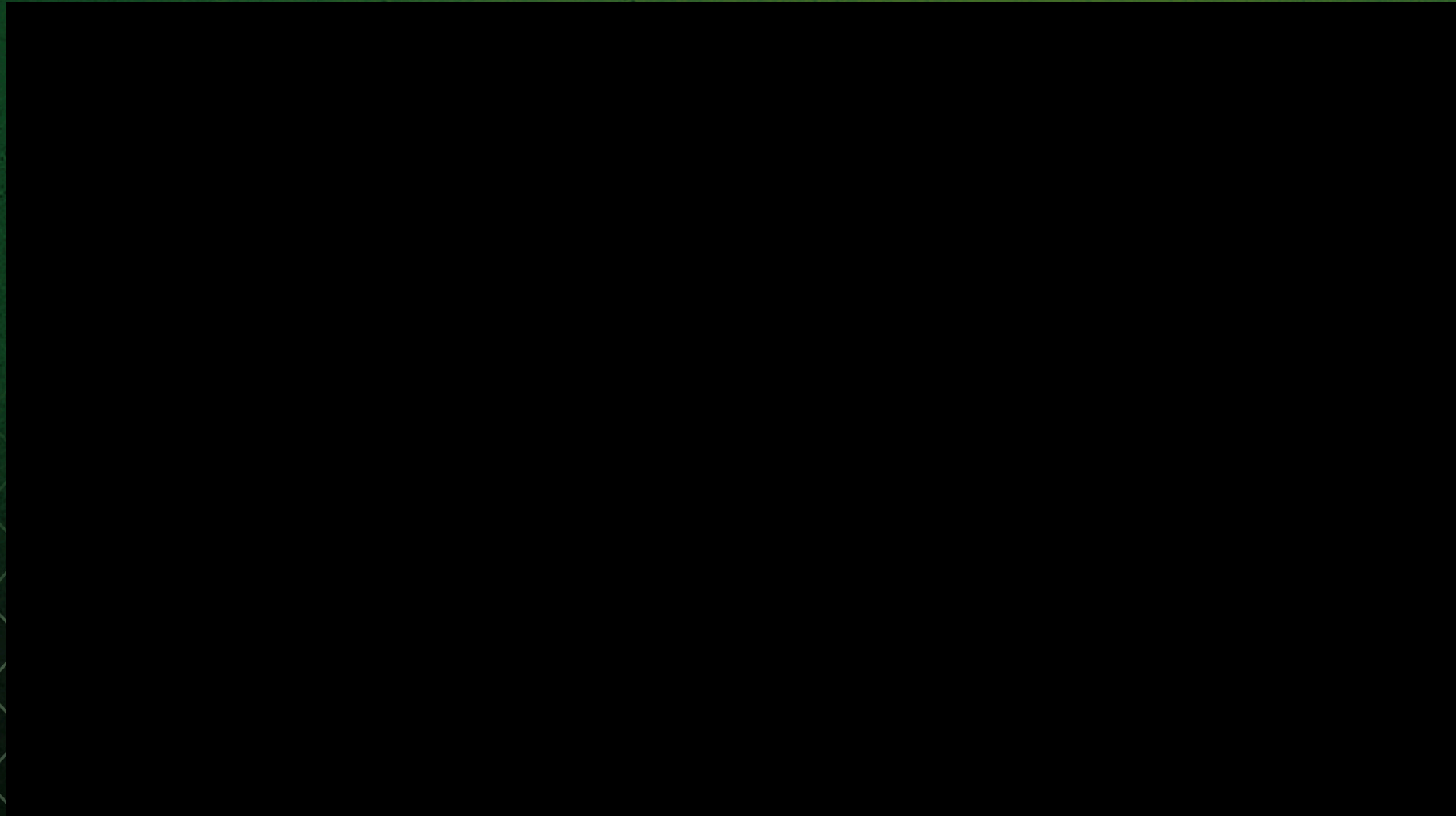
> Cyclo-1 Clear

> Cyclo-1 Tinted

> Basecoat



Medici System



Solid Color Polyurea System

- Base Coat: Basecoat (tinted)
- Mid Coat: Cyclo-1 (tinted)
- Top Coat: Cyclo-1 (clear)

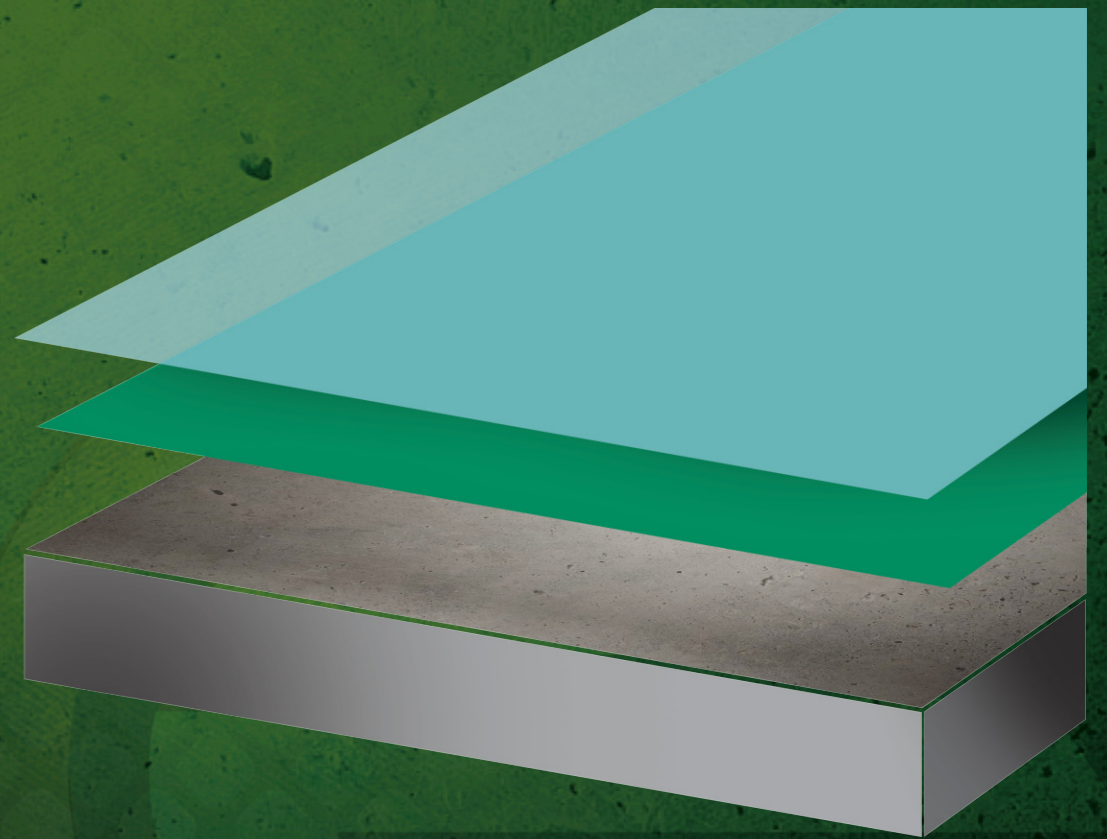


Epoxy Solid Color System

> Cyclo-1

> 100% Solids Epoxy

> 5 year warranty



Metallic System

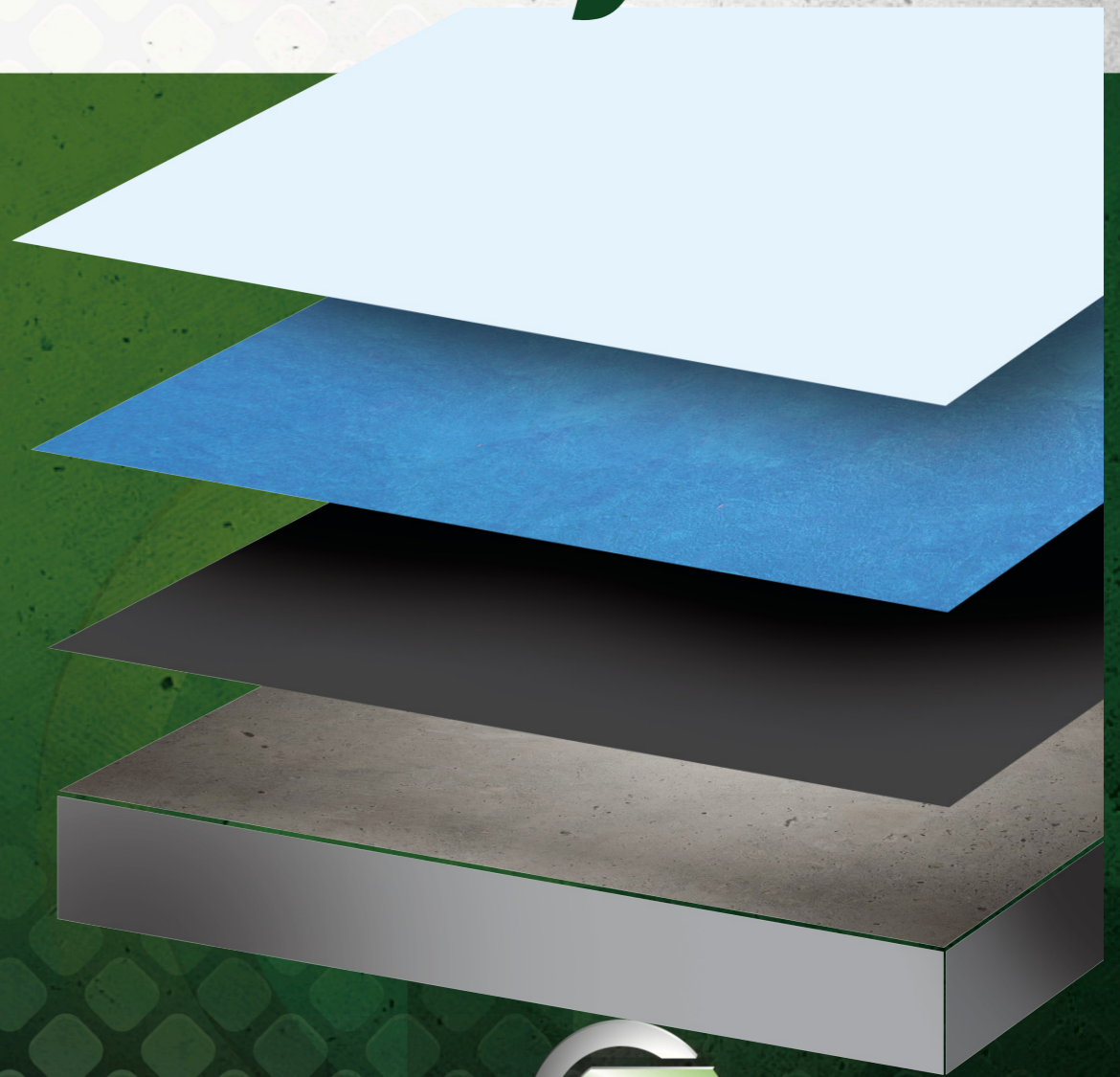


Metallic System

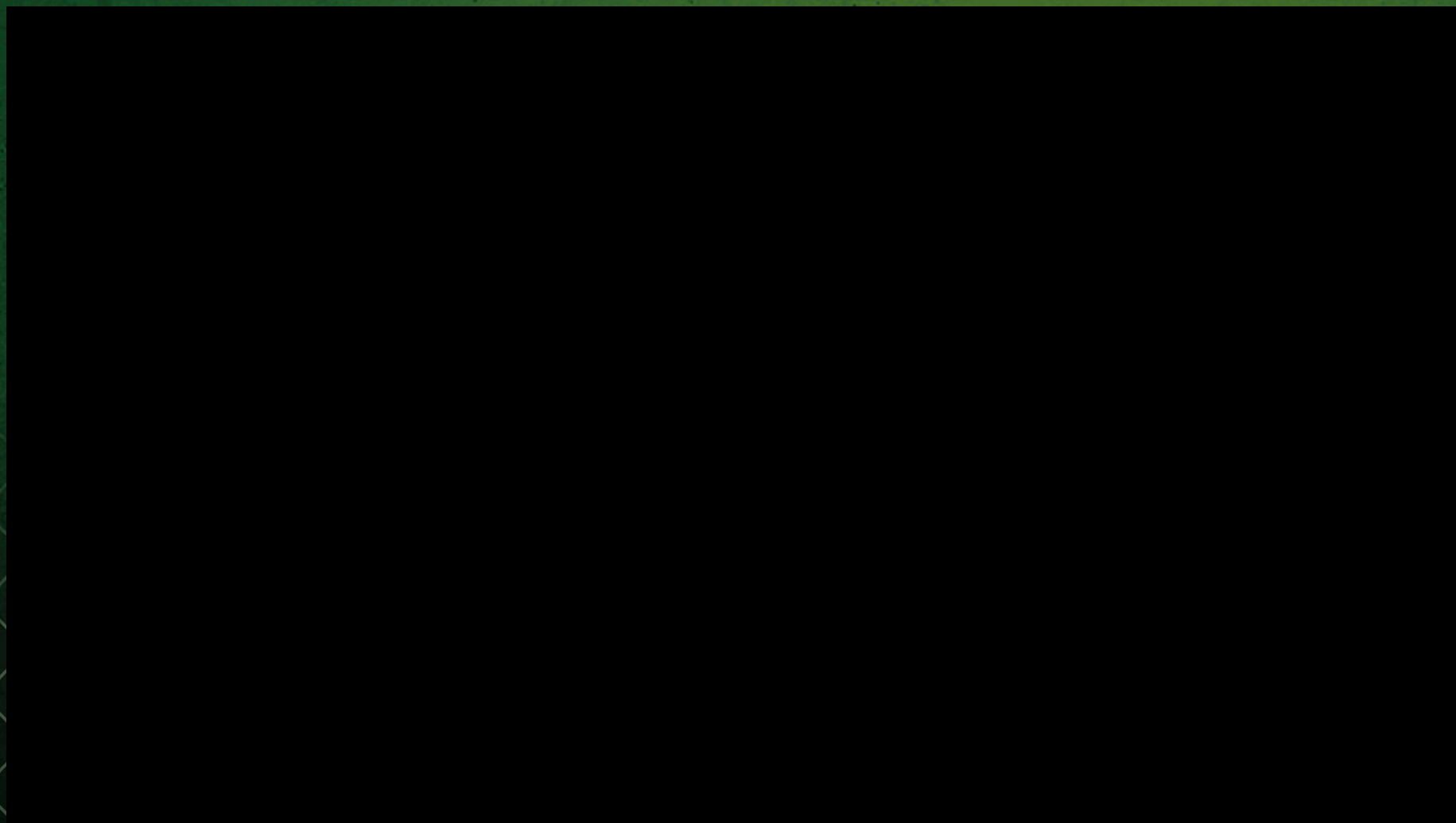
> Cyclo-1

> 100% Solids Epoxy

> Basecoat



Metallic System

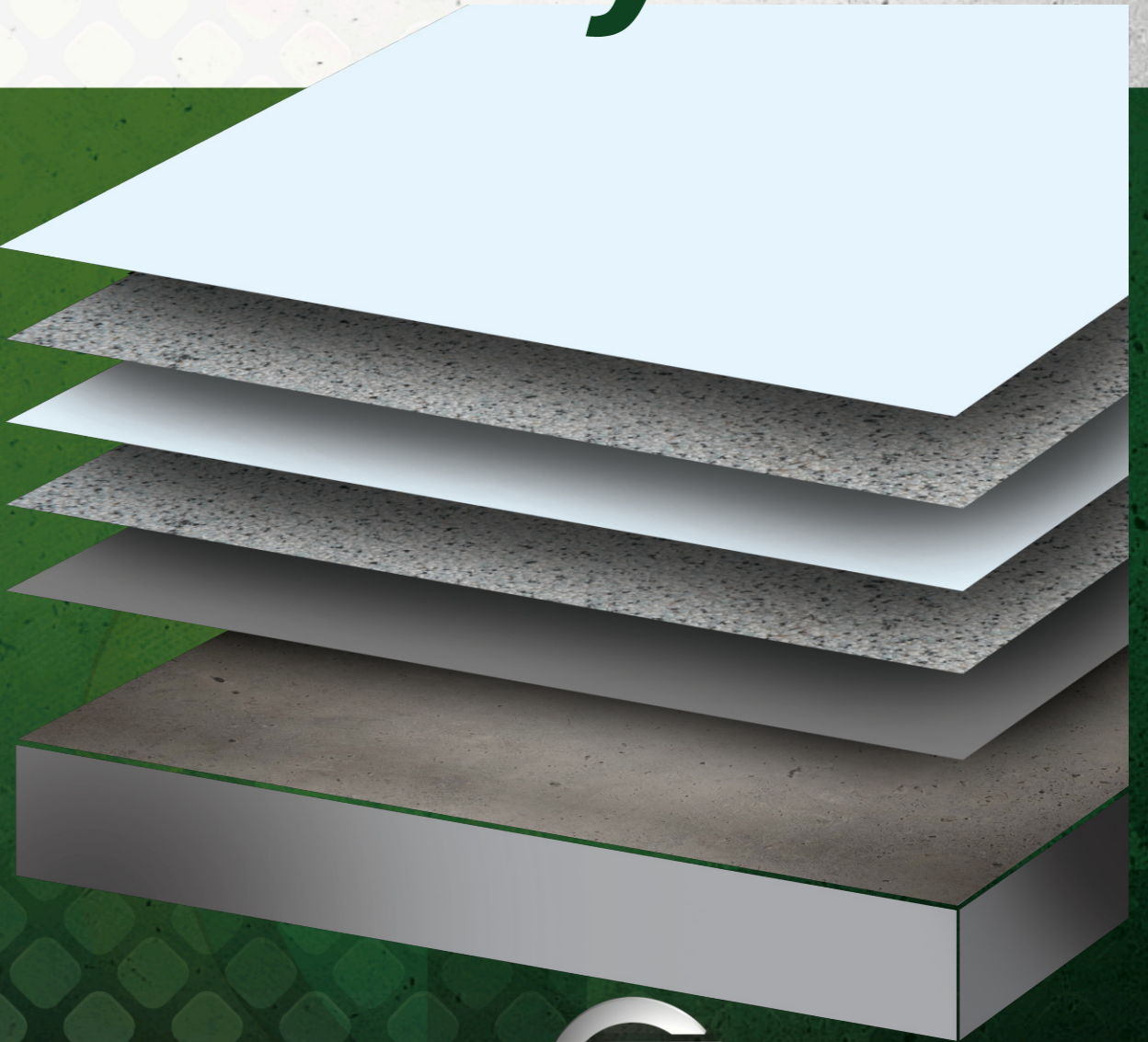


Quartz System



Quartz System

- > Topcoat
- > Colored Quartz
- > Topcoat
- > Colored Quartz
- > Basecoat



Quartz System



Coating Products

Basecoats

Anchor Coat

- 30 min pot life
- Concrete or wood
- 100-350 sq. ft. per gal.
- Pre-Tinted or Tint-able
- Roller or squeegee applied
- Not UV Stable
- Comes in varying speeds
- Combine speeds to adjust cure rate



Topcoats

Cyclospartic™ Topcoat

- Chip systems
- UV Stable
- 30 min pot life
- Clear or tint-able
- 100–175 sq. ft. per gal.
- Squeegee or roller applied



Cyclo-1

- Single Component
- UV Stable
- Excellent Chemical & Abrasion Resistance
- Direct to Concrete or top coat
- 300-600 sq. ft. per gal.
- Roller applied



Other

Level Coat

- Epoxy
- 1 hour pot life
- 50–100 sq. ft. per gal.
- Squeegee or roller applied
- 5 year warranty



Other Products

- ABRASION RESISTANCE ADDITIVE
- GF GRIP
- ALUMINUM OXIDE
- SILICA SAND

Product Identification

Product Identification

- > **READ THE LABEL. IT WILL CONTAIN:**
 - > **PRODUCT NAME**
 - > **COLOR**
 - > **SPEED**
 - > **MIX RATIO**
- > **LABELS ARE COLOR COORDINATED**

Product Identification



- > PRODUCT COLOR
- > PRODUCT NAME
- > COMPONENT SIDE
- > MIX RATIO
- > SHELF LIFE
- > STORAGE TEMPS
- > LOT NUMBER

Product Identification

GARAGE FORCE

ANCHOR COAT
CYCLOPARTIC™ BASE COAT

PART A

PRODUCT MIXING RATIO
1:2 1 Part A
2 Part B

APPROVED FOR USE ONLY BY A CERTIFIED GARAGE FORCE INSTALLER

Product Quality Life Expectancy: **12 Months from Manufacture Date**

NOTE: Store Tightly Closed in a dry, ventilated area at 45°-90°F

www.garageforce.com

LOT # **240103018**
(855)436-7230

VERIFLOOR® ID

DANGER Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. Read label and SDS before use. **KEEP OUT OF REACH OF CHILDREN.**

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. If medical advice is needed, have product container or label at hand. Wear appropriate gloves/protective clothing/eye protection/face protection. Wear protective gloves/eye protection. Wash thoroughly after handling. Avoid breathing mist/vapour/spray.

Response: First AID: IF ON SKIN: Wash with plenty of water. If on face: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. Collect spillage.

IN CASE OF FIRE: Use Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog.

Storage: Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Disposal: Dispose of contents/container in an appropriate treatment and disposal facility in accordance with applicable laws and regulations. Do not empty into drains.

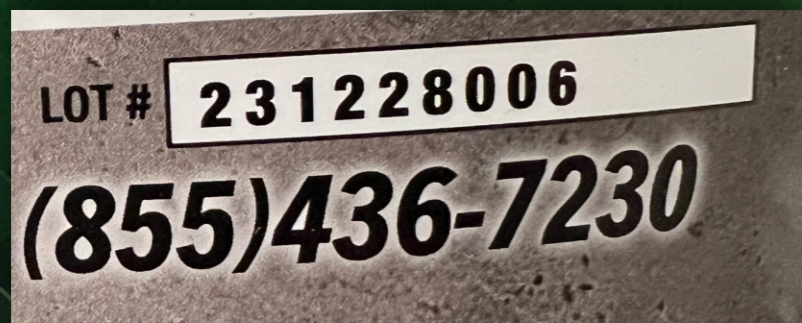
For more information on product characteristics at time of disposal, refer to SDS for Additional Information • For Chemical Emergency: (Spill, Leak, Exposure or Incident) Call 1-800-535-5035


WARNING: Cancer - www.P65Warnings.ca.gov

- > PRODUCT NAME
- > COMPONENT SIDE
- > MIX RATIO
- > SHELF LIFE
- > STORAGE TEMPS
- > LOT NUMBER

Product Identification

- > COLOR COORDINATED LABELS
- > BATCH NUMBERS



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Legacy Products

Polyurea Basecoat

- 30 min pot life
- Concrete or wood
- 100-350 sq. ft. per gal.
- Pre-Tinted or Tint-able
- Roller or squeegee applied
- Not UV Stable
- Comes in varying speeds - Summer - Winter - Arctic
- Combine speeds to adjust cure rate



GARAGE  **FORCE™**

Crystal Topcoat

- Chip systems
- UV Stable
- 30 min pot life
- Clear or tint-able
- 100-175sq. ft. per gal.
- Squeegee or roller applied
- Comes in varying speeds - Fast - Slow - Super Slow



AlphaCoat

- Single Component
- UV Stable
- Direct to Concrete or top coat
- 300–600 sq. ft. per gal.
- Roller applied



GARAGE FORCE



Welcome to Garage Force!