

## G-100 PRO-SERIES GROUT MIX™

G-100 Pro-Series Grout Mix™ is designed for interior, exterior, commercial and residential use. This product is versatile and when mixed with DuraSet™ 1000/1001 polymer, can be sprayed, troweled, acid stained and dyed in an endless array of colors, textures and patterns, providing limitless possibilities for any concrete surface new or old, horizontal or vertical.

**Features – Freeze-Thaw Resistant – Salt & Alkali Resistant – Stain & UV Resistant – Excellent Flexural Properties – Outstanding Mechanical Properties Including Impact Resistance, Compression & Tensile Strength Nearly Twice That of Regular Concrete – Cured Product is Non-Flammable**

### DESCRIPTION

G-100 Pro-Series Grout Mix™ is specifically designed as a decorative concrete restoration grout mix and is typically used as part of the Spray-Tek™ Overlay System, providing outstanding weatherproofing and stain resistance to almost

any concrete surface, old or new. G-100 Pro-Series Grout Mix™ must be mixed with DuraSet™ 1000/1001 modified acrylic polymer. C-Series Liquid Colorant, SuperSeal™ 2000, GemKote™ 400, GemKote™ 350 or GemKote™ 100 are also used for the Spray-Tek™ Overlay System. Check local VOC requirements. SuperGlaze™ 3600 or SuperGlaze™ WBU\* can increase durability and improve overall performance.  
\*Not suitable for vehicular traffic

### USES

G-100 Pro-Series Grout Mix™ can be used on interior or exterior masonry and concrete type surfaces. It can be used on driveways, walkways, patios, porches and pool decks. G-100 Pro-Series Grout Mix™ can be applied vertical or horizontal. It is used frequently in industrial and commercial applications for decorative and restorative purposes. When used as part of the Spray-Tek™ Overlay System, it is used with C-Series Liquid Colorants and SuperSeal™ 2000 or GemKote™. Check local VOC requirements.

## GENERAL DATA AND CHARACTERISTICS

<b>White Portland Cement:</b> .....	30-40%
<b>Silica Sand:</b> .....	60-65%(crystalline free)
<b>Flow Agent:</b> .....	<1%
<b>Packing:</b> .....	50 lb bag
<b>Shear Bond Strength:</b> ASTM C-1042-99.....	680 PSI
<b>Tensile Strength:</b> ASTM C-109-72.....	630 PSI
<b>Compressive Strength:</b> ASTM C-109-73.....	5735 PSI
<b>Flexural Strength:</b> ASTM C-348-72.....	1615 PSI
<b>Freeze/Thaw Resistance:</b> ASTM C-291.....	Passes 60 cycles
<b>UV Resistance:</b> No discoloration when exposed to UV light	
<b>Chloride Ion Resistance:</b>	
Ponding 3% Sodium Chloride/60 days @ 1" depth.....	100%

<b>Sodium Hydroxide:</b>	
10% solution, 5-minute immersion.....	Not Affected
<b>Lactic Acid:</b>	
10% solution, 5-minute immersion.....	Not Affected
<b>Sulfuric Acid:</b>	
10% solution, 5-minute immersion.....	Not Affected
<b>Citric Acid:</b>	
10% solution, 5-minute immersion.....	Not Affected
<b>Gasoline:</b>	
5-minute immersion.....	Very Slight Abrasion
15-minute exposure (ponding).....	Slight Dulling

### STORAGE

Store in a safe, dry place. DO NOT ALLOW PRODUCT TO GET WET. Shelf life is approximately 12 months.

### CAUTIONS

KEEP OUT OF REACH OF CHILDREN. Before using or handling, read the Material Safety Data Sheets and Warranty. DO NOT TAKE INTERNALLY. Use good hygiene when handling these products and wash and bathe after each use.

### EQUIPMENT FOR APPLICATION

Hopper gun, steel pool trowel, continuous run compressor, knee pads, double row cup grinding wheel, diamond crack

chaser, diamond blades, 4" and/or 9" grinders, ½" heavy duty drill, pressure washer, rubber spray shields, mixing paddle, masking paper and maskers. Also see the Spray-Tek™ Overlay tool checklist.

### PREPARATION FOR APPLICATION

Eliminate all direct, debris and contaminants. Repair cracks as necessary. Grind all high spots and non-uniform area. Round off any square edges. Re-cut all existing expansion and control joints another ¼" deep. Remove paint, glue and sealers. Rebuild, re-slope and repair using Fast-Patch™ mortar. The surface must be mechanically profiled or cleaned and etched using one part muriatic acid to four



### PREPARATION FOR APPLICATION (CONTINUED)

parts water. Pressure wash the surface with a minimum of 3000 psi and 3-4 gallons of water per minute.

Mix 4 ½ to 5 quarts of DuraSet™ Modified Acrylic Polymer per bag of grout. Add polymer then grout in an empty 5-gallon bucket. Mix vigorously with a mixing paddle attached to a ½" drill. Make sure mix is even, consistent and free of lumps. Add ¾ to 1 cups of desired C-Series Liquid Colorant to mix and blend until color is consistent. Primary colors require additional colorant to achieve proper color. (Blue, Black, Red, White and Chocolate are colors that require the addition of more colorant.) The color achieved is determined by the contractor mixing this product.

### APPLICATION TIPS (SEE DETAILS BELOW)

1. Always prime area to be overlaid
2. Apply skim coat
3. Apply spray coat
4. Apply highlights
5. Scrape high spots when surface is dry
6. Sweep or blow area to free up loose debris

### APPLICATION METHODS

**Primer:** Using a plastic pump weed sprayer, spray a mixture of 30% water and 70% DuraSet™ 1000 modified acrylic polymer on area where first coat of overlay is to be applied. Only prime area that is going to be immediately covered with overlay. Do not let prime dry, therefore only prime portions of area that can be overlaid within a short amount of time. This keeps the material that has been poured wet and workable.

**Skim Coat:** Apply evenly and smoothly using a squeegee or pool trowel until the entire surface is covered. A thick application is not necessary or recommended. Apply only to the thickness of a business card for most applications. Prime edges generously to allow material to run down the edge radius, particularly on stairs. Use a trowel to remove excess material from control joints.

After this coat has dried, clean all joints using a small diamond blade and use a rubbing brick to smooth out imperfections. Sweep and blow the surface clean with a leaf blower prior to tape application. Apply pattern tape or paper stencil on the dried skim coat to create desired look. Mask surrounding areas as necessary to prevent over-spray.

**Spray Coat:** Add 4 to 4 ½ quarts DuraSet™ 1000/1001 modified acrylic polymer per bag and mix thoroughly. A slightly grainy texture should be noticeable. Add ¾ to 1 cups of desired C-Series Liquid Colorant to mix and blend until color is consistent. Add mixture to hopper gun. When spraying, consistency is more important than coverage. Consistent application gives the appearance of spraying 100% coverage. Overlap each stroke 1/3 to ½ each time. Spray edges and radius first then vertical surfaces such as steps. Lower air pressure at higher air flow is preferred. Stay about 16" above the surface. Ensure all tape lines are covered consistently.

**Spray Highlight:** Highlights may include three or more colors. We recommend a dark and light color. Spray in short bursts with a fast side to side motion at chest height. Pull the trigger back fully on each burst. Spray all vertical areas then all horizontal areas. Spray colors from darkest to lightest.

After spray has dried completely, remove all pattern tape, masking and stencils. Scrape the surface lightly with an 18" floor scraper to remove extreme high spots. DO NOT push down on the scraper. Scrape at 45 degree angles to pattern lines. Lightly clean tool joints again with a diamond blade. Sweep and blow the surface thoroughly prior to sealer application.

### SEALER

SuperSeal™ 2000, GemKote™ 400, GemKote™ 350 and GemKote™ 100 are commonly used for sealing G-100 Pro-Series Grout Mix™. Concrete Coatings, Inc. SuperGlaze™ 3600, SuperSeal™ 20WB, SuperGlaze™ WBU and UV Shield™ may also be used. Consult technical support for specific recommendations instructions. See Sealer Technical Data Sheet (TDS) for sealer information.

### MAINTENANCE

The sealed surface should be inspected periodically for areas of thin or traffic-worn sealer and re-applied as needed. If traces of efflorescence are present, this should first be eliminated with Concrete Coatings, Inc. Efflorescence and Antique Release Remover or a gentle cleaner. For maximum life expectancy, routinely sweep and wash floors with appropriate cleaners and detergents. All chemicals or abrasive grit should be removed as soon as possible.

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