

SELECTION & SPECIFICATION DATA

Generic Type	A one-component, modified polyaspartic, water based dispersion.
Description	Reactamine 5050 is designed to be used with light weight solid surface fillers such as thermoplastic resins. This polymer provides excellent weatherability, color retention (UV stability), flexibility, water & abrasion resistance, and excellent solvent resistance. It is recommended to use Carboguard 1340 WB as a primer on concrete. After the Carboguard 1340 WB is dry to the touch, Reactamine 5050 should be applied with the desired solid surface filler, or vinyl flakes. Once the Reactamine H 5000 has cured, it is recommended that it be top-coated with Reactamine H SLR or Sanitile 985 PA. *Three viscosities are available for varying weights of aggregates (Reactamine 425: quartz, flakes, sand, and heavy aggregates) (Reactamine 5050: vinyl flakes, solid surface fillers) and (Reactamine 5000: Light solid surface fillers).
Features	<ul style="list-style-type: none"> • Breathable coating • May be applied with squeegee, roller or sprayer • Interior/exterior applications • Outstanding UV stability • Excellent flexibility • Infinite pot life
Color	Standard:(0000) Milky appearance when applied but turns clear when water evaporates.
Finish	Textured
Primer	Sanitile 1340 WB
Number of Coats	1
Solids Content	By Volume 45% +/- 1%
VOC Values	As Supplied : 1.91 lbs/gal (229 g/l)
Topcoats	Reactamine HSLR, Sanitile 985 PA, Sanitile 934 HS, Sanitile 920
Pot Life	Unlimited

SUBSTRATES & SURFACE PREPARATION

General	The product adheres well to sound concrete, steel or wood substrates. All surfaces should be free of oils, greases, loose particles or debris or any contaminant which would interfere with adhesion. Product is tolerant of damp concrete.
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Reactamine 5050

PRODUCT DATA SHEET



SUBSTRATES & SURFACE PREPARATION

Concrete	For Foot Traffic Only: Concrete should be cured and dry to touch. Reference SSPC-13/NACE-6 and ICRI 03732 on proper surface cleaning and profiling of concrete substrate. Concrete should be properly cured and have the following characteristics: Substrate tensile strength of at least 300 psi. The surface must show open pores throughout and have a sandpaper texture (CSP 1-3).
	For Vehicle Traffic: Concrete should be cured and dry to touch. Reference SSPC-13/NACE-6 and ICRI 03732 on proper surface cleaning and profiling of concrete substrate. Attain a surface profile resembling coarse sandpaper. Eliminate leaks and infiltrations and remove standing water. Fill excessive cracks or joints using a high-strength, rapid-cure, zero-shrinkage resurfacing product. Apply one primer coat of Carboguard 1340 WB prior to the application of Reactamine 5050. Once Reactamine 5050 has been applied and is dry to the touch, topcoat with Reactamine H SLR or Sanitile 985.

PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	System	Results
ASTM D412: Elongation	1 ct. Reactamine 5050	85%
ASTM D412: Tensile Strength	1 ct. Reactamine 5050	6250 psi
ASTM D5324: Freeze Thaw Stability	1 ct. Reactamine 5050	Passes 5 cycles
Chemical Resistance (24 Hour Spot Test) @ 70°F (25°C)	Alcohol (24 hours)	5
	Ammonia (24 hours)	4-5
	Antifreeze (24 hours)	5
	Brake Fluid (2 hours)	No effect
	Brake Fluid (24 hours)	5
Chemical Resistance (24 Hour Spot Test) at 70°F (25°C)	Transmission Fluid (24 hours)	No effect
	Gasoline (24 hours)	No effect
	Motor Oil (24 hours)	No effect
	Diesel Fuel (24 hours)	No effect
Viscosity@ 75°F	Cola Beverage (24 hours)	No effect
	Reactamine 5050	50-300 cps

*The 0-5 scale represents failure to excellent

MIXING & THINNING

Thinning | May be thinned up to 5% with water.

Working Time | 10-15 minutes

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Spray Application (General)	Reactamine 5050 can be spray applied with a Graco RTX 1500 or a standard air-assisted hopper after the desired solid surface filler has been combined with the material. Contact Carboline Tech Service for more specific requirements. Material may be sprayed with a texture hopper gun with medium or large orifice tip depending on aggregate size.
Brush & Roller (General)	Material may be brush and rolled to desired coating thickness. A 1/4" lint free nap roller is recommended. A flat or 40 mil notched squeegee is also recommended for application.

APPLICATION PROCEDURES

Application Rates | 5 gallons @ 125 ft² @ 40 mils for Textured coat

Dry Film Thickness | 20-25 mils

Mixing | Power mix material for 2 minutes prior to application. If using Amerilyte Filler mix entire 20 pound box with five gallons of material.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C (50°F)	10°C (50°F)	10°C (50°F)	0%
Maximum	38°C (100°F)	38°C (100°F)	38°C (100°F)	90%
Optimum	16°C (60°F)	16°C (60°F)	16°C (60°F)	25%

Industry standards are for substrate temperatures to be 5°F (3°C) above the dew point. Caution: This product in the liquid stage is moisture sensitive and needs to be protected from high humidity, dew and direct moisture contact until cured to a firm state. Application and/or curing in humidity above maximum, or exposure to moisture from rain or dew may result in a loss of gloss, micro bubbling, and/or blistering of the product.

CURING SCHEDULE

Surface Temp.	Dry Time (Light Foot Traffic)	Dry to Recoat & Topcoat w/ other finishes	Dry to Recoat/ Topcoat with Water Base	Dry to Topcoat Maximum	Dry to Touch
21°C (70°F)	45 Minutes	1 Hour	45 Minutes	48 Hours	15 Minutes

CLEANUP & SAFETY

Cleanup | Use clean water for clean-up. Use Thinner 2 for more difficult to clean tools. In case of spillage, absorb and dispose in accordance with local applicable regulations. Clean up of spray equipment and tools should be performed immediately after application with soap and water. Coating that has cured will be extremely difficult to remove.

Safety | Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Persons should wear proper personnel protection equipment

Caution | This product does not contain flammable solvents; however, clean-up solvents that may be used do contain flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Shelf Life | 12 months*
*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.

Shipping Weight (Approximate) | 8.9 lb/gal. (4.0 kg/gal.)

Reactamine 5050

PRODUCT DATA SHEET



PACKAGING, HANDLING & STORAGE

Storage Temperature & Humidity | 60 to 90°F (16-32°C)

Flash Point (Setaflash) | >201°F (91°C)

Packaging | 5 & 55 gal.

WARRANTY

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