



G.V.K. International Bio-Environmental Service

PO Box 536 Webster MA 01570

Ph/fax: 1-508-949-0939 • Cell: 1-774-253-1776

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www.enviro-earth.com

“Always Thinking Earth Friendly”

1. PRODUCT NAME

MA-SA Acrylic Color Coating

2. MANUFACTURER- Co Producer

GVK IBES Co. Inc.

Phone: 1-508-949-0939

Cell: 1-774-253-1776

Email: greggvk@gmail.com

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3. PRODUCT DESCRIPTION

MA-SA Acrylic Color Coating is a premium quality, highly pigmented, acrylic emulsion.

MA-SA contains high tensile strength geotextile fibers for greater toughness, flexibility and longer service life. The product is also formulated with a surfactant package which promotes superior adhesion to concrete or asphalt surfaces. **MA-SA** contains no asbestos or mercury.

Packaging:

Packaged in 5 gal. pails and 55 gal. steel drums. 260 gal. totes are available as a special order.

Color:

Stock standards are green, dark green, red, beige, blue and gray. Custom colors are also available.

Basic Uses:

MA-SA provides long wearing, nonfading color and texture to asphalt and concrete pavements including parking lots, tennis courts, basketball courts, playgrounds and walkways. For courts, mix designs can be adjusted to optimize speed of play and bounce requirements. **MA-SA** in custom colors meets the LEED Green Building requirements.

Composition:

MA-SA Acrylic Color Coating is a blend of binders, pigments, geotextile fibers, surfactants and rheological agents in a water based emulsion. Premium quality 100% acrylic polymers give **MA-SA** its tough, long wearing character. Pure, high grade Synthetic mineral oxide pigments that have been tested for color stability and resistance to ultraviolet light give **MA-SA** its rich matte colors. The geotextile fibers offer tensile strength and dimensional stability to the product. These non-toxic inert polyolefin fibers are non-wicking and impervious to bacterial attack. The surfactants blended into **MA-SA** create a superior bond between the product and the pavement surface. The rheological agents allow the emulsion to maintain long shelf life and an excellent non-settling character.



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Limitations:

In the liquid state, **MA-SA** must be protected from freezing and rain. Do not store in direct sunlight or where temperature exceeds 120°F.

- **Long Lasting:** Premium acrylic polymer fortified with polyolefin fiber provides up to 50% greater wear, tensile strength and flexibility than typical clay filled acrylic coatings.

- **No Fading:** Pure inorganic pigments assure rich, true color for years of service.

- **Uniform Color:** Consistent quality control color matching at the factory assures uniform non-chalking color.

- **Two Year Buyer Protection Warranty:** Available from Certified Applicators and GVK IBES Co. Inc.

- **LEED Green Building Compliant:** Custom colors can be formulated to meet “High Albedo Coatings” requirements.

4. INSTALLATION

Preparatory Work:

The surface must be structurally sound, surface cured and free from all loose or foreign matter prior to the application of **MA-SA**. An asphalt recreational surface should be checked for irregularities or depressions deeper than 1/8” (birdbaths). Fill to level of surrounding surface with hot mix asphalt or **MA-SA** Patch Binder prior to the application of **MA-SA**. On a concrete recreational surface, the finish should be wood float or light broom, not steel troweled. The surface should be checked for depressions deeper than 1/8”. Fill to level of surrounding surface with **MA-SA** Quick Patch Binder prior to the application of **MA-SA**. In addition, new concrete surfaces should be lightly abraded or lightly acid etched and then primed with **MA-SA** bond Primer prior to the application of **MA-SA**.

Note: *In all cases a vapor barrier beneath concrete surface is strongly recommended.*

Methods:

MA-SA can be applied by squeegee, brush or spray. On new tennis or basketball courts, squeegee application is the recommended method.

Mix Design:

MA-SA is a highly concentrated material intended to be mixed with water and mineral aggregate to form a ready to use color coating.



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Per 55 gallons of MA-SA

Water	Sand	Yield
22-28 gal.	300-400 lbs.	90-100 gal.

All sand used should be clean, dry, pure silica sand, free of contaminants. Fine sand with an A.F.S. rating of 70 to 100 gives best results.

Application:

New construction of recreational surfaces often requires **MA-SA** Acrylic Resurfacer prior to color coating. There is also the option of building up an acrylic cushion underlayment with **MA-SA** bond, Sport-Mat and Sport-Top prior to color coating. After the resurfacer or cushion underlayment has been given adequate time to dry thoroughly, **MA-SA** texture color coats shall be applied by rubber-bladed squeegee in a minimum of two applications (a third color coat is optional). As a result, on a smooth sand or rubber textured surface, consumption of **MA-SA** Acrylic Color Coating is calculated at a rate of .05 - .1 gal./ sq. yd. /coat or 1 gal./10 to 20 sq. yds./coat. Coverage rates can vary with the application method and the age, texture, and porosity of the pavement to be coated. On recreational surfaces, the speed of play desired can be increased by one additional coat of **MA-SA** Acrylic Color Coating diluted with water at the same rate as the Mix Design chart, but without the addition of silica sand. Application must be made when ambient temperatures and pavement temperatures are above 50°F. Good drying conditions above 50°F are required during the subsequent 8 hours and no temperatures below 50°F should be anticipated for 48 hours. Night time application is not recommended. It is recommended that the area over which the application is made be opened to use only after trial shows it to be dried and sufficiently cured.

Precautions:

Wet **MA-SA** must be protected at all times from freezing. Keep out of reach of children. Container should be closed when not in use. Avoid breathing vapor or contact with skin or eyes. Consult specific **MA-SA** material safety data sheet before use. New asphalt should be allowed to cure for a minimum of 15 days prior to application and must not exhibit ribboning, crawling, nor show oil rings when 1 gal. of clean water is poured onto the surface. New concrete pavement should be allowed to cure for a minimum of 30 days prior to application.

5. MAINTENANCE

Proper care of the finished surface will maintain the attractive appearance and prolong the service of the **MA-SA** coating system. Keeping leaves and other foreign matter off the surface and occasional flushing with clean cold water will achieve good results.

6. TECHNICAL DATA

Applicable Standards:



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MA-SA in custom colors meets LEED-EB Heat Island Reduction: Non- Roof Option B Low Albedo Coatings. **MA-SA** meets the composition and performance standards of ASTM D2833, “Architectural Paints and Coatings,” when tested according to the following ASTM methods:

Drying Time:

When tested according to ASTM D1640, “set to touch” in 1 hour, dry to touch in 4 hours.

Adhesion:

When tested according to ASTM D3359 A, the dried film exhibits no loss of adhesion from the substrate.

Flexibility:

When tested according to ASTM D522 B, the dried film exhibits no loss of adhesion.

Resistance to Water:

When tested according to ASTM D870, the dried film exhibits no blistering, re-emulsification or color change.

Flaking:

When tested according to ASTM D662, the dried film exhibits no flaking.

Cracking:

When tested according to ASTM D661, the dried film exhibits no cracking or breaking.

Chalking:

When tested according to ASTM D4214, the dried film exhibits no chalking or friable powder development.

Fading:

When tested according to ASTM D4587, the dried film exhibits no fading or color loss.

Environmental Considerations:

MA-SA is non-hazardous when tested according to the EPA’s TCLP (Toxicity Characteristic Leaching Procedure). **MA-SA** is a water based material containing less than 142 g/L (1.22 lbs./gal.) VOC content.

7. TECHNICAL SERVICES

C.S.I. formatted application specifications, material safety data sheets, special project submittals, product and application recommendations as well as assistance with special situations and field service are available.



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8. WARRANTY

The above specifications on product usage are believed to be true and accurate. GVK IBES Co. Inc. guarantees that all materials manufactured comply with quality standards as described in the product data sheets. Because the application, handling, weather, workmanship and equipment are beyond the control of this manufacturer, only the quality of the products as shipped is guaranteed. In no case will the liability of GVK IBES Co. Inc. exceed the purchase price of the shipped materials.

9. ADDITIONAL INFORMATION

GVK IBES Co. Inc. manufactures a full line of recreational surface and asphalt pavement maintenance products as well as application equipment sold and distributed nationally at our plants and through distributors and contractors. To find the supplier most convenient to you, please contact us.

