



About MEBAC®



What is MEBAC?

As you would expect from "The First Family in Industrial Flooring Products," IKG's MEBAC® slip resistant surfaces are manufactured to provide the absolute BEST in safety products. Produced using a proprietary arc spray process, we provide the highest C.O.F. slip resistant surface that is uniform and extremely durable.

Unlike other anti-slip coatings, MEBAC surfaces are not made up of tape, resin or paint. Instead molten metal is sprayed onto the required metal surface and a grit media, available in different sizes for different applications, is then encapsulated with additional coats of the molten metal.

MEBAC surfaces have been used for over three decades worldwide and are produced at our EPA compliant facility in Leeds, Alabama. MEBAC is available through our nationwide network of sales and representative offices.

Importance of Coefficient of Friction

MEBAC meets and exceeds these requirements to provide a safe flooring option.

A coefficient of friction factor of .50 is considered by OSHA to be a safe surface on which to perform work. The American Disabilities Act suggests a factor of .60 for a flat surface and .80 for an inclined

Coating



Co-efficient of Friction Test Results for Anti-Slip Products*				
Product	Dry	Wet	Oil	
Mebac #1	1.15	1.25	0.99	
Mebac #3	1.27	1.34	1.00	
Mebac #4	1.14	1.27	1.03	

^{*}ASTM F2913 SATRA Quarry COF testing conducted by an independent certified laboratory.



MEBAC® coating options



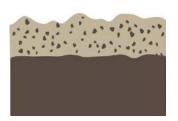
MEBAC ¹



One of the original MEBAC products, MEBAC #1 offers the greatest durability and the most aggressive slip resistant surface in the Mebac family of coatings. It utilizes the highest concentration of aluminum oxide grit.

Used where superior slip resistance is required, it is available in both our carbon steel and aluminum coatings.

Steel MEBAC 3

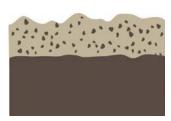


MEBAC #3 is the coating of choice in high traffic areas where a slightly less aggressive surface is desired. MEBAC #3 is the product of choice when

the finished product will be galvanized.

Available only in the steel MEBAC coating.

MEBAC 4



MEBAC #4 coating has a smaller grit particle that is ideal for areas that may be exposed to bare feet, such as swimming pools and leisure areas. This size particle provides long lasting durability expected from MEBAC coatings and is also easy to clean.

The MEBAC #4 coating is available in either our steel or aluminum coating.

EZ Weld



EZ Weld is available in aluminum, carbon steel or stainless steel arc sprays.

Manufactured without grit particles, EZ Weld provides our least aggressive surface. Designed for moderate traffic areas that not only require a durable slip resistant surface, EZ Weld also considers the ergonomics of a work place. It is an ideal surface for food processing facilities, or other applications where the degree of slip resistance

Stainless Steel MEBAC

Stainless steel MEBAC coatings are available for specialized applications. Important considerations in deciding whether to utilize this type of coating will be the longer lead times to be expected with this custom-made product, and significantly higher costs.



2

MEBAC® Advantages



Safety

The most important advantage should always be safety! No other product can exceed MEBAC's consistently high results for coefficient of friction under a wide range of conditions.

Even when subjected to water and lubricants, the MEBAC surface exceeds OSHA's standards for a safe working surface. Why would you want employees or the public walking on any other safety surface?

Economy

MEBAC reduces potential indirect costs or expenses incurred by the end users when there are slip/fall accidents, lost man hours and equipment down time.

Fabrication flexibility

MEBAC coatings can be applied either before or after fabrication of metal components.

However, it is recommended that whenever possible, bending or forming of substrate should take place before applying MEBAC. In addition, performing cutouts, drilling holes, or adding attachments on plain plate that does not have MEBAC applued yet tends to lower cost and yield a higher quality plate, as well as avoid any uneven or abraosive cut edges or tool wearing.

Fabrication after MEBAC is applied is feasible and the fabrication tips on page 6 of this catalog offer practical guidance if post-coating fabrication is required.

Availability

IKG's MEBAC production cycle is short enough that manufacturing lead times rarely exceed three weeks for standard material, and are more commonly between one to two weeks depending on shop cycle time.







MEBAC® Physical Properties



Durability

MEBAC's durability is the result of bonding and exceptional wear resistance. Since the aluminum oxide grit particles are an even harder substance than the metal arc spray encapsulating it, any eventual wear of the metal surface simply serves to expose an even tougher wearing material.

Strength

Although MEBAC surfaces have no load carrying capacity of their own, tests have shown that a MEBAC surface acts in composite with the metal substrate.

Nevertheless, our plate thickness dimensions do not include the thickness of the MEBAC.



MEBAC treads at Daytona International Speedway

As MEBAC can be applied to virtually any steel or aluminum substrate chosen by the customer, the design engineer has maximum flexibility in selecting the optimum components to complete the required job, where installations can utilize standard plate.

Uniformity

Other abrasive metals processes are unable to control grit dispersion, resulting in some surface areas with too much grit and some with little or none. MEBAC's unique manufacturing process yields a consistently uniform grit pattern.

Tested Bond Strength

Steel coating to surface 5,582 PSI Aluminum coating to surface 5,911 PSI

Surface Buildup (added weight to substrate)

Steel = .89# / sf Aluminum = .36# / sf

Tolerances

Stock sheet sized material =
Standard mill tolerances will
apply (generally slightly
oversized)

Fabricated Plates = + / - 1/4" width and length, and 1/4" square

Fire Resistance

Mil C-i1346A. 47.4

Specified Actual

Ignition Plus 4.25 Max 0
Combustion Time
(min.)

Average Char. 6.00 Max 0 (in.)

Food Approval

FDA approved and USDA approved (aluminum EZ weld)

UL Classified

Classified as slip resistant by Underwriters Laboratories

Limitations

- MEBAC is applied to horizontal surfaces only.
- Maximum width of coated material = 60"
- Maximum length of coated material = 240"
- Maximum height of coated material = 8"



MEBAC® Anti-Skid Plate

Applied to Carbon Steel/Aluminum/Stainless Plate



MEBAC Floor Plates are available in standard sizes listed below, and also available in a variety of other sizes upon request. Contact us for assistance with your standard plate requirements. Please note that all standard size plates are furnished with mill tolerances as to length, width and squareness.

Standard MEBAC plate sizes

Carbon steel plate comes in the following standard sizes:

- Thicknesses: 1/4", 1/4", 3/4", and 1/2"
- Other thicknesses and sizes of plate are available, please contact MEBAC sales.
- Mill tolerances apply and are generally slightly oversized.

Aluminum ⁵⁰⁵²-H³² is regular aluminum plate and comes in the following standard sizes:

- 48 " x 144 " and 60 " x 120 "
- · Thickness: 1/4"
- Other thicknesses and sizes of plate are available, please contact MEBAC sales.
- Mill tolerances apply and usually are +/- 1/8" on width and length and 1/4" on square.
- Other alloys are available, please contact MEBAC sales.





Considerations

- If specific tolerance dimensions are required where plates will be laid side-by-side or where tighter tolerances are needed than mill offerings please advise us to ensure satisfactory fit-up.
- Mill finish Carbon Steel MEBAC will rust if exposed to moisture IKG recommends that a quality rust inhibitive coating be applied to the applied MEBAC to protect the surface from such rust

MEBAC Manufacturing criteria

Maximum width of coated material

• Maximum length of coated material 240"



MEBAC® Fabrication Tips

A major advantage of MEBAC Surfaces is that they can be applied to customer supplied material after fabrication. For circumstances where fabrication prior to surfacing is impractical, we offer the information below.



	Aluminum on Aluminum	Aluminum on Steel	Steel on Steel	
Saw Blade	Sawing is best accomplished by using abrasive wheels on radial, chop or cut-off saws. Carbide blades give good results when used with cold saws, bands saws or jig saws. Climb cutting is advised.			
Bending Mebac Surface Coating May Crack or Chip	It is recommended that outside bends be made prior to coating. Bending after the MEBAC process is possible, however, mirror cracking or chipping may occur (unless area was masked prior to MEBAC process).		Because of the low elastic limit of the finished surface, outside bends should be made prior to coating.	
Drilling Mebac Surface	Drilling may be done from either the coated or uncoated side. Sintered carbide drills are recommended. Drill speed should reflect approximately 50% reduction when drilling through the coated side. Once the coating has been penetrated, normal feed rates and speeds recommended by the drill manufacturer apply.			
Flame Cutting Mebac Surface	Conventional methods of torch cutting have been used to cut MEBAC coated products. Plasma cutting is strongly recommended, however. Flame cutting from the coated side is recommended.			
Press Working Mebac Surface Up	MEBAC coated products can be sheared, notched, blanked or stamped. The abrasive surface should be placed toward the moving press member. Covering the abrasive surface with carrier board saves wear on tooling.			
Welding Mebac Surface Down	For cosmetic purposes, it is recommended that welding be performed on the uncoated side. Care should be taken when welding on the coated surface.	Weld on uncoated steel side only.	For cosmetic purposes, it is recommended that welding be performed on the uncoated side. Care should be taken when welding on the coated surface.	
	May be flame, shaper, planer, or ground to a beveled edge.			
Galvanizing	N/A	Plate can be pre-galvanized prior to application of Aluminum MEBAC coating. Cannot be galvanized after coating.	Can be galvanized after MEBAC is applied to plate. However, care must be taken by galvanizer ¼" thick may warp. See note on page 4. Test samples are recommended. Plate may also be pre-galvanized. MEBAC coated then a zinc – based paint applied to MEBAC surface.	

Although we believe the above to be accurate and practical, we offer this data only as a service and can assume no liability in regard to its use.



MEBAC® Custom Fabrication Plates



MEBAC Custom Fabricated Plate Products

MEBAC® coatings, as a valuable part of any slip and fall loss prevention program, are available on your choice of substrates, fabricated to your exact specific plans and specifications.

Send us your structural steel drawings or dimensioned sketches and we will custom-fabricate to your requirement. Fabrication offered includes:

- Shearing
- Plate bending
- Cut-to-size holes
- Forming
- Beveling
- Plasma cutting
- Punched plate
- Welded attachments



All fabrication is prior to the application of MEBAC. IKG recommends that a quality rust inhibitive coating be applied after application of Mill Finished Steel MEBAC to protect the surface from rusting.

MEBAC surfaced Customer Materials

Ship us your fabricated parts, new or used, prior to installation. IKG applies MEBAC anti-slip coating products to all types of customer furnished materials, with applications ranging from lift platforms and expansion joint covers, to hotel stairways and stadium concession stand floors.

If your existing flooring is removable and does not exceed our size restrictions, simply clean your flooring material of existing finishes, contaminants and lubricants, ship the material to our plant and we'll apply your choice of MEBAC coating and ship the finished product back.

If you are an original equipment manufacturer or a contractor renovating or building a new floor and want to fabricate the substrate yourself, we can apply your choice of MEBAC slip-resistant surface to your material.

Send us your substrate. We would love to coat it!

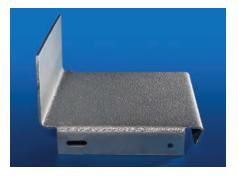


MEBAC® Treads



MEBAC® stair treads and stair tread covers are available in a wide range of types and dimensions. Combining the superior slip resistance coatings of MEBAC with flexibility in design, our tread solutions can solve your slip-resistance challenges for both new installations and renovation conditions.

Available in bar grating, plate, aluminum plank or our patented Z-Treads (see below), our anti-slip treads are







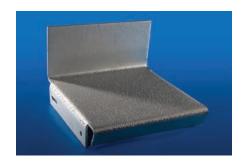
For more information on our full range of MEBAC welded steel and aluminum bar grating treads, their available sizes and specifications, please visit our website at www.MEBAC.com.

MEBAC® Z-Treads

MEBAC Z-Treads offer a fast, economical way to design and construct a steel staircase with built-in, long term slip resistance. The benefits don't stop there – the simplicity and versatility of our Z-Treads allow fast, easy field installation that saves time and money.

Their clean, one-piece design provides a slip resistant walking surface with the mounting plates, nosing and riser as a single piece of steel. There are no welds or cracks to rust over time. Usually fabricated in 1%" steel, with steel MEBAC #3 walking surface, Z-Treads are available in standard 36", 44" and 48" widths. (Additional sizes available upon request.)

Supplied in mill finish or galvanized to ASTM A-123. MEBAC Z-Treads meet or exceed BOCA, UBC and OSHA standard loading requirements. Call us for help on how to specify your MEBAC Z-Treads.



MEBAC® Accessories



We offer a full range of versatile MEBAC accessories, from extruded aluminum nosings to rungs, for both new construction and renovation, and for either concrete or metal stair treads.

MEBAC Nosings

Aluminum Embedment Nosings are made with a durable 'A" thick extrusion to guard against impact cracking. Cost effective and suitable for stair treads in new construction, Embedment Nosings can be used in poured in place, pan type or terrazzo stairs. Embedment Nosing are furnished in lengths up to 20' and are available in 3" and 4" widths in three different styles. Type 'A' & 'C' Nosings ship with EZ-anchors - countersunk holes with bolt, nut and wing anchor are available at

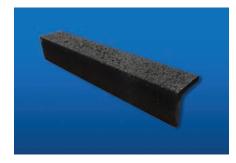
additional cost.

Renovation Nosings are specially designed with a unique tapered rear edge to alleviate the potential trip hazard of conventional nosings. They are easy to install for almost all types of retrofit applications.

Renovation Nosings are furnished in lengths up to 20' and come in widths of 3-3/4" and 7" with countersunk holes for easy field installation.

Type "RS-3.75" and "RS-7" ship with countersunk holes only.







MEBAC Surfaced Rungs and Rung Covers

Whether on construction sites, in factories or on offshore platforms, ladders are one place where slips tend to have extreme consequences. For new construction, MEBAC Ladder Rungs are the answer. For retrofitting existing ladders, utilize our easy-to-install MEBAC Rung Covers, which provide the same measure of safety afforded by regular MEBAC Ladder Rungs with minimum installation time.

Both Rungs and Rung Covers

are available in 3/4" and 1" sizes.

Rungs are steel MEBAC #1 on a mill finish carbon bar and can be cut-to-length or shipped in 10' lengths.

Rung Covers are aluminum MEBAC #1 on a pre-galvanized carbon steel substrate, and are also offered as cut-to-length pieces or shipped in standard 10' lengths.



MEBAC® Aluminum Nosings



Embedment Nosings

TYPE A-3C

TYPE A-4C

TYPE A-3E

TYPE A-4E



3 or 4 in. 25
1.25
7*
1/16 to 3/16
Mebac Surface

·250 in· 6063 aluminum with ¼ to ¼ in· integral grit Mebac metalized surface only· Vertical leg (face) is bare aluminum·



Embedment Nosings

TYPE C-3C

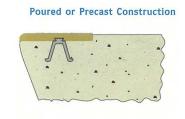
TYPE C-4C

TYPE C-3E

TYPE C-4E



·250 in· 6063 aluminum with ¼ to ¼ in· integral grit Mebac metalized surface·



Renovation Nosings

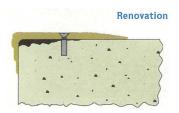
TYPE RS ³.⁷⁵ or RS-⁷



3.75° or 7° 157 1.187 V₁₆ to 3/₁₆ Mebac Surface

·187 in· 6063 aluminum with
¹/• to ³/• in· integral grit Mebac* metalized surface on top surface only
Vertical leg (face) is bare aluminum·

Supplied with countersunk holes only



C = Countersunk 5/16 hole

E = EZ Anchor

Manufacturing Facilities

Division Headquarters

1514 South Sheldon Road Houston, TX 77015 P. O. Box 310 Channelview, TX 77530 Phone: (281) 452-6637 Fax: (281) 457-6054

Garrett, IN.

1801 Forrest Park Drive Garrett, IN 46738 Phone: (260) 357-6900 Fax: (260) 357-0027

Leeds, Al.

8500 Dunnavant Road Leeds, AL 35094 Phone: (205) 699-2111 Fax: (205) 699-8388

Reno, NV.

6645 Echo Ave Suite C Reno, NV 89506 Phone: (713) 378-3935

Sand Springs, OK.

g20 East Pecan Sand Springs, OK 74063 Phone: (g18) 246-0772 Fax: (g18) 246-0783

Querétaro, México.

Rejillas Irving Prol. Corregidora Nte. 487 Col. Parques Industriales Querétaro, Qro. 76160 Phone: 52 (442) 227-1000 Fax: 52 (442) 227-1001

www.IKG.com Call us at (800) 324-8417



Forging Partnerships™



(