

FLOORS, INCORPORATED

1341 COBBLESTONE WAY
P.O. BOX 700
WOODSTOCK, IL 60098-0700
(815) 338-6566
Fax (815) 338-6679

Date: June 27, 2016

To: Village of Orland Park

Re: Cultural Center
Wood floor replacement

PROPOSAL

We propose to:

Dance Room – approx. 1,070 sq. ft.:

Remove the existing wood flooring and dispose of properly. Test concrete for moisture (see option #1 below). Furnish and install 7/16" Sportwood maple flooring (2nd and btr grade) by Robbins Sports Surfaces laid in adhesive, sand the maple flooring, apply 2 coats oil based polyurethane seal, 2 coats oil based polyurethane finish, 1" x 2" maple wall base and re-install existing thresholds adjacent as needed.

FOR THE SUM OF - - - \$17,344.00

(Seventeen thousand three hundred forty-four and 00/100 Dollars)

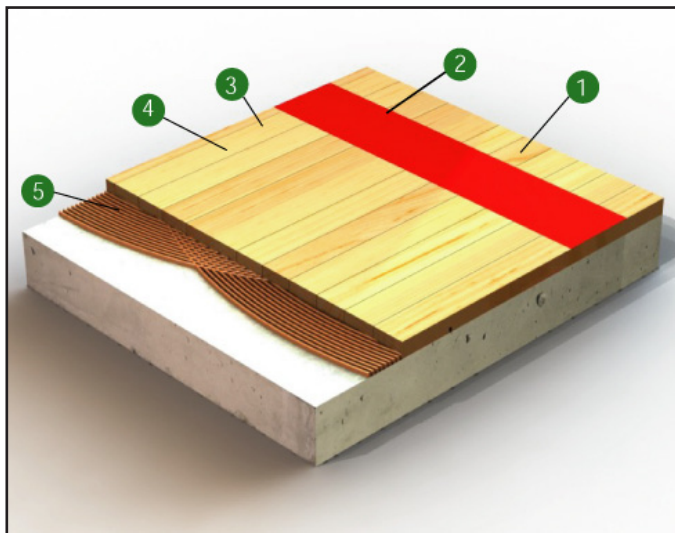
Option #1 – add the sum \$ 4,380 to use Sika 1610 moisture suppression primer/ adhesive to adhere wood flooring if concrete moisture is above 85% RH.

All above prices are subject to change after thirty days

Respectfully submitted by: _____ Steve Fantuzzi

THE **ECONOMICAL CHOICE** THAT IS ALSO GOOD FOR THE **ENVIRONMENT**

If you've always considered maple out of your budget range, then take a look at Sportwood Direct by Robbins. The economical choice that is durable and easily installed in new or existing facilities. Since 1982, and with millions of square feet installed, Sportwood is a favorite of churches, YMCAs, schools and recreation centers across the Globe. Sportwood can be directly installed over concrete, or older poured-in-place urethane floors for a low cost, low profile upgrade to the floor. (See your local Robbins Authorized Dealer for restrictions on usage and need for removal or encapsulation of older urethane floors.)



System Feature Build up (From top to bottom):

1. Floor Finish – MFMA Approved Finish
2. Gameline – Gameline Paint
3. Floor Sealer – MFMA Approved Sealer
4. Flooring – Sportwood Northern Hard Maple Parquet Flooring
5. Adhesive – Elastomeric Adhesive

System Benefits:

- ⊙ Very Low-Profile
- ⊙ Edge-Grain material, so it shrinks and swells less
- ⊙ Adhesive provides tremendous holding power yet permits natural movement of the wood due to changes in humidity
- ⊙ Outstanding buckle resistance
- ⊙ Withstands the extremes of moisture and humidity



robbinsfloor.com | 1.800.543.1913

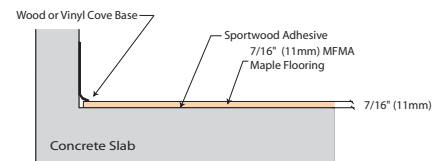
Robbins, Inc. | 4777 Eastern Avenue | Cincinnati, OH 45226

Product Specifications

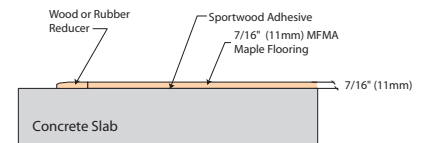
System Type	Anchored
Surface- MFMA Northern Hard Maple	7/16" (11mm) or 5/16" (8mm) thick maple parquet flooring
Environmental Impact	Sportwood is an environmentally friendly product and is also available in FSC lumber.
Wood Adhesive	Low VOC Elastomeric Adhesive
Optional Construction	Alternative Sportwood Systems include; Sportwood Plus & Sportwood Ultra Star
Sportwood Family Reference Facilities	Auburn Student Wellness, Airdrie Recreation Centre, University of Alaska, Copley High School, Wichita State University, Olivet College, East Kentwood High School
LEED Contributions	MR credit 4, 5, & 7 IEQ 4.1, 4.2, 4.3 FSC® Lumber Available <i>*Credits are based on products selected and location of facility</i>
Warranty	1 year Industry Standard with optional Extended Warranty Program (<i>Egis Floorlife</i>)



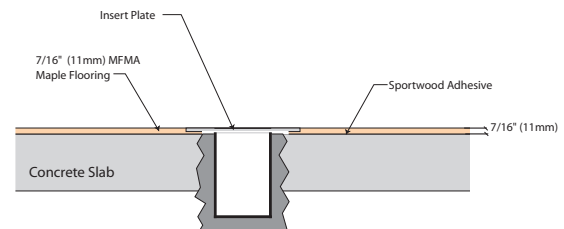
Wall View



Threshold View



Equipment View



Sikafloor® 1610

Moisture Tolerant Primer

Description	A two component, high solids, red transparent epoxy primer. This epoxy primer is specially formulated to perform as a moisture tolerant primer.
Where to Use	Sikafloor 1610 is designed as a primer for Sikafloor epoxy and urethane coatings, as well as broadcast and troweled systems. Sikafloor 1610 should be considered where $\leq 6\%$ mass (pbw – part by weight) is measured on concrete substrate with Tramex® CME CMExpert type concrete moisture meter.
Advantages	<ul style="list-style-type: none"> ■ Excellent penetration and adhesion ■ Moisture tolerant ■ Low Tensile Modulus ■ Higher Tensile Elongation ■ Low VOC's

TYPICAL DATA

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Packaging	Component A: 3 US gal. (11.3 L) Component B: 1.5 US gal. (5.7 L) Components A+B: 4.5 US gal. (17 L) (Ready to mix unit)		Component A: 50 US gal. (189 L) (2 units needed) Component B: 50 US gal. (189 L) Components A+B: 150 US gal. (567 L)	
Color	Red transparent after mixing			
Coverage	160 - 200 ft² / per mixed US gal. (4 – 5 m² / L) at 8 – 10 mils (0.20 – 0.25 mm) wet film thickness (w.f.t.). *One coat of Sikafloor 1610 is required when the concrete substrate moisture is < 5% (as measured with Tramex® CME/CMExpert type concrete moisture meter) *Two coats of Sikafloor 1610 are required when the concrete substrate moisture falls between ≥ 5% and < 6% (as measured with Tramex® CME/CMExpert type concrete moisture meter). Total required thickness is 16 - 20 mils.			
Pot Life	Material Temperature	Time		
	+50°F (10°C)	~ 50 minutes		
	+68°F (20°C)	~ 25 minutes		
	+86°F (30°C)	~ 15 minutes		
Waiting / Recoat Times	Before applying second coat of Sikafloor 1610 allow:			
	Ambient & Substrate Temperature	Minimum	Maximum	
	+50°F (10°C)	24 hours	36 hours	
	+68°F (20°C)	8 hours	24 hours	
	+86°F (30°C)	6 hours	24 hours	
	Before applying Sikafloor Epoxy or Polyurethane on Sikafloor 1610 allow:			
	Ambient & Substrate Temperature	Minimum	Maximum	
	+50°F (10°C)	24 hours	3 days	
	+68°F (20°C)	8 hours	2 days	
	+86°F (30°C)	6 hours	1 day	
Cure Times	Ambient & Substrate Temperature	Foot traffic	Light traffic	Full cure
	+50°F (10°C)	~ 24 hours	~ 3 days	~ 10 days
	+68°F (20°C)	~ 12 hours	~ 2 days	~ 7 days
	+86°F (30°C)	~ 8 hours	~ 1 day	~ 4 days
Properties Tested at 73°F (23°C) and 50 % R.H:				
Pull-off Strength	ASTM D4541		> 400 psi (2.7 MPa) (100% concrete failure)	
Shore D Hardness (7 days)	ASTM D2240		78 - 82	
VOC Content	ASTM D2369		≤ 50 g/l (A+B Combined).	
Permeability	ASTM E96		0.2 perms @ 16 mils w.f.t/d.f.t	
Water Absorption	ASTM D570		0.14 g/h - m²	
Viscosity (mixed)	900 cps			
Chemical Resistance	Please consult Sikafloor Technical Services.			
Shelf Life	2 years in original unopened container under proper storage conditions. Store dry between 40°- 90°F (4°- 32°C)			



PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

How to Use Surface Preparation

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. **Concrete** - Should be cleaned and prepared to achieve a laitance-free and contaminant-free, open-textured surface by shot-blasting or equivalent mechanical means (CSP-3 to CSP-4 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. "Over-blasting" will result in reduced coverage rates of the primer and/or subsequent topcoats. The "shotblast" pattern may show through the last coat, known as "tracking". The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application. For other substrates, please contact Sikafloor Technical Services.

Mixing

Mixing Ratio - 2 : 1 by volume.

For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product uniformity.

Primer: Premix each component separately. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin). Mix the combined components for at least 3 minutes using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

Application

Apply primer by squeegee at the rate of 160 - 200 ft² / US gal (4 - 5 m² / L) at 8 - 10 mils (0.20 - 0.25 mm) wet film thickness and back roll with pressure after 20 minutes. Coverage will vary depending on the porosity of the prepared substrate. Apply a second primer coat by squeegee at the rate of 160 - 200 ft² / US gal (4 - 5 m² / L) at 8 - 10 mils (0.20 - 0.25 mm) wet film thickness and back roll with pressure after 20 minutes after the first primer coat is tack free, which is typically after 12 hours at +68°F (20°C). Do not apply by dipping roller into mixing container. Pour a bead of product in the form of a ribbon on the substrate to be coated and then spread with squeegee and back roll. Ensure that the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate. If necessary, apply an additional primer coat to ensure that the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate.

Limitations

Notes on Limitations:

Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.).

Substrate Moisture Content: Moisture content of concrete substrate must be ≤ 6% by mass (pbw - part by weight) as measured with a Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels > 6% mass (pbw - part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 6% by mass (pbw - part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor-22NA PurCem.

When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be ≤ 96%. If values are > 96% according to ASTM F2170 use Sikafloor-22NA PurCem.

ASTM F2170 testing is not a substitute for measuring substrate moisture content. Use a Tramex® CME/CMExpert type concrete moisture meter as described above.

Material Temperature: Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C)

Ambient Temperature: Minimum/Maximum 50°/85°F (10°/30°C)

Substrate Temperature: Minimum/Maximum 50°/85°F (10°/30°C). Substrate temperature must be at least 5°F (3°C) above measured Dew Point.

Mixing and Application must adhere to Material, Ambient and Substrate temperatures listed above or a decrease in product workability and slower cure rates will occur.

Ambient Relative Humidity: Maximum ambient humidity 85% (during application and curing)



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Dew Point: Beware of condensation!

The substrate and uncured floor must be at least 5°F (3°C) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or "blushing" on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.

Mixing: Do not hand mix Sikafloor materials. Mechanically mix only.

Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty.

Improper mixing procedure or incorrect mixing ratio may result in moisture sensitivity, whitening, slow cure, soft spots, and other defects.

Application: Apply the primer to the prepared surface using a squeegee and back roll to provide uniform coverage. Ensure that the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate. If necessary, apply an additional coat to ensure the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate.

- The minimum coverage rate of Sikafloor 1610 when the concrete substrate moisture is < 5% (as measured with Tramex® CME/CMExpert type concrete moisture meter) is one coat at 8 - 10 mils (0.20 - 0.25 mm). The minimum coverage rate of Sikafloor 1610 when the concrete substrate moisture falls between ≥ 5% and < 6% (as measured with Tramex® CME/CMExpert type concrete moisture meter) is two coats at 8 - 10 mils (0.20 - 0.25 mm) each coat, totalling 16 - 20 mils in thickness.
- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.
- Do not apply Sikafloor to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikafloor product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use.
- Sikafloor 1610 must be applied as supplied. Tinting Sikafloor 1610 may result in loss of moisture tolerance.
- Any aggregate used with Sikafloor systems must be non-reactive and oven-dried.
- This product is not designed for negative side waterproofing.
- Typically not recommended for exterior slabs on grade where freeze/thaw conditions may exist.
- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing, whitening, debonding, etc.).
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.
- For professional use only by experienced applicators.

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LIMITED WARRANTY: Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKASHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKASHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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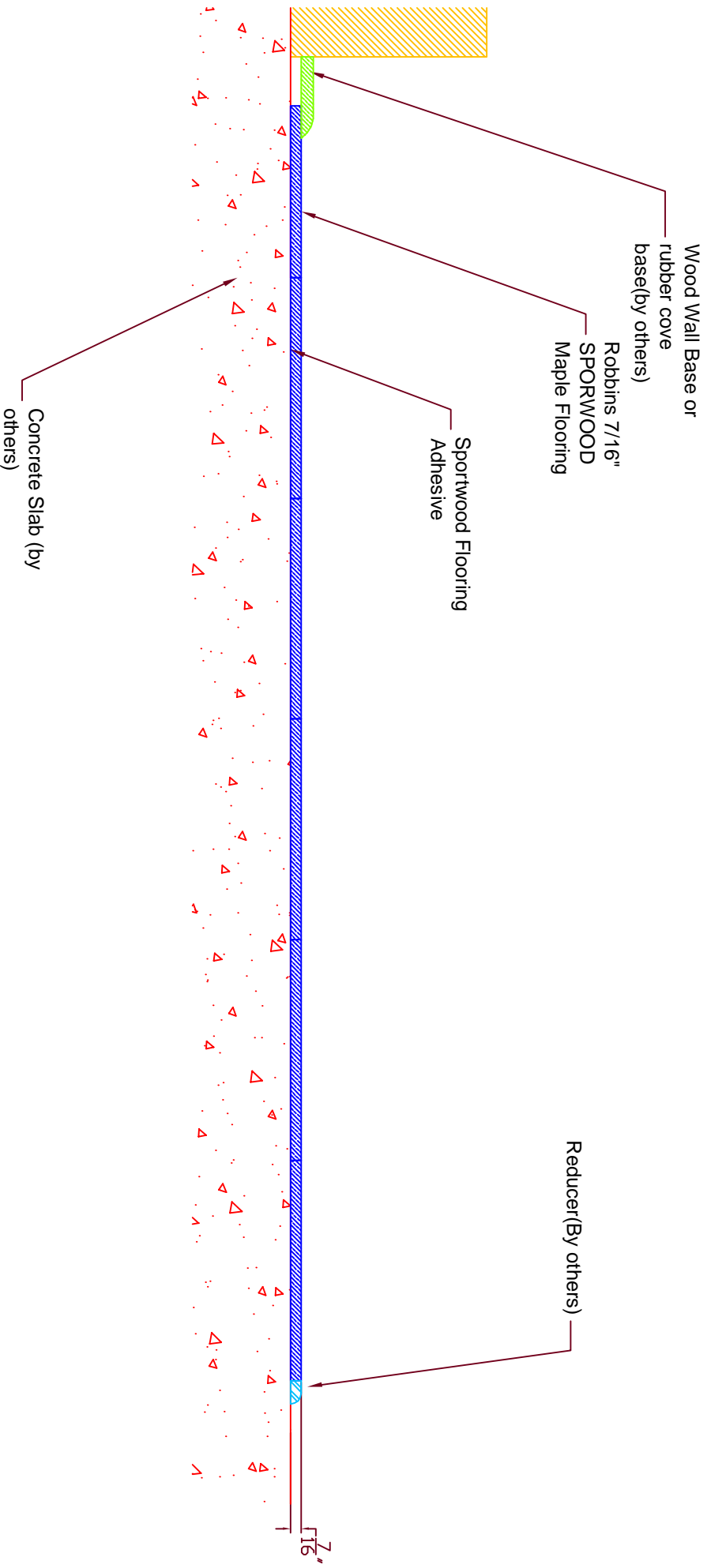
Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center.

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: 800-933-7452
Fax: 201-933-6225

Sika Canada Inc.
601 Delmar Avenue
Pointe Claire
Quebec H9R 4A9
Phone: 514-697-2610
Fax: 514-694-2792

Sika Mexicana S.A. de C.V.
Carretera Libre Celaya Km. 8.5
Fracc. Industrial Balvanera
Corregidora, Queretaro
C.P. 76920
Phone: 52 442 2385800
Fax: 52 442 2250537





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4777 Eastern Ave.
Cincinnati, OH 45226
1-800-543-1913