FORMICA INFINITI® SURFACING BY FORMICA GROUP

TECHNICAL DATA

RECOMMENDED APPLICATION

Formica Infiniti® surfacing offers a super matte soft-to-touch finish that provides a beautiful look and feel that is impossible to resist. Formica Infiniti® surfacing is an offering for any space calling for a tactile yet durable and matte surface. With the added benefits of resisting fingerprints and antimicrobial surface protection, thermal healing capabilities, and chemical resistant properties, Formica Infiniti® surfacing has a home in just about every space! Formica Infiniti® surfacing is ideal for high traffic areas such as cafes, diners and quick-service restaurants, hotels and retail, healthcare, commercial offices or any setting that calls for countertops, tables, doors, partitions, cabinets and furniture. Formica Infiniti® sheets are available in a horizontal postforming and may be postformed to a ⅝" (16mm) outside radius and a minimum 3/16" (4.8mm) inside cove radius. Postforming provides an ergonomic edge and an excellent protection against fingerprints and bacteria.

Formica Infiniti® ColorCore®2 is also available where the brown line seen on standard laminate is eliminated but still maintains the same attributes as standard Infiniti. This product is not postformable but can be used in any horizontal or vertical application.

NOTE: Color will tend to shift from standard laminate. Request a sample for true color representation. This color shift does not constitute a defect.

FABRICATION AND ASSEMBLY

LIMITATIONS

Formica Infiniti® laminate sheets are not recommended for application directly to plaster, drywall (gypsum board), concrete, or solid lumber underlayment. Formica Infiniti® laminate is for interior use only. It should not be used in areas where temperatures exceed 275°F (135°C) for prolonged periods of time, or for exterior applications. Do not expose Formica Infiniti® surfacing to continuous direct sunlight. Do not chop, slice, pound or hammer on Formica Infiniti® surfaces.

STORAGE

Formica Infiniti® laminate sheets should be stored horizontally, face-to-face and back-to-back with the top sheet turned face down. A caul board should be placed on top to protect the material from possible damage and reduce the chance of warpage of the top sheets. The material should be protected from light, heat and moisture and should never be stored in contact with the floor or an outside wall. It is important that Formica Infiniti® laminate sheets be stored at a temperature not less than 60°F (16°C) and a relative humidity not less than 40%.

PRECONDITIONING

Formica Infiniti® laminate sheets and substrates gain moisture and expand under high relative humidity conditions, and lose moisture and shrink under low relative humidity conditions. Prior to fabrication, allow the Formica Infiniti® laminate sheets and the substrates to acclimate for at least 48 hours at the same ambient conditions. Optimum conditions are approximately 75°F (24°C) and relative humidity of 45% to 55%. Provisions should be made for the circulation of air around the components. Formica Infiniti® laminate sheets move about twice as much across the grain as it does in the length direction (sanding direction). Whenever possible, minimize the dimension of the cross-grain direction.

NOTE: Stress cracking can result when high-moisture material is glued and subsequently exposed to low humidity conditions. Excessively dry material may expand and cause bubbling if improperly glued.

CUTTING

Formica Infiniti® laminate sheets have a special fingerprint resistant surface. We recommend the use of sharp, carbide-tipped cutting blades with low or negative hook profiles. Low feed speeds and high tool speeds are also suggested. A feather board should be clamped to the saw fence to stabilize the stock and prevent chatter, producing safer, cleaner cuts.

SUBSTRATES

The recommended cores for Formica Infiniti® surfacing are 45# density, industrial grade particleboard (CS 236-66; Type1, Grade B, Class 2) and Medium Density Fiberboard (MDF).

A marginal substrate such as plywood may be used; however it must meet APA standards and be “A” faced, hardwood veneer or multi-ply core plywood. If you choose to use plywood Formica recommends F200, F270 or PVAc adhesives to bond HPL. Refer to the Substrate Tech Guide. Substrates should be sanded smooth, and should be clean, free of oil or grease, and uniform in thickness. Refer to Substrate Section Guide.

Do not use drywall (gypsum board), plaster, concrete, solid lumber, plywood or underlayment.

ADHESIVES

Contact, semi-rigid (PVAc) or rigid (urea, resorcinol) adhesives may be used. Follow the adhesive manufacturer’s recommendations. Certain combinations of finish, substrate, and adhesives can cause telegraphing.

Similar to ColorCore®2 Fab guide, Formica Infiniti® ColorCore®2 is more brittle than standard Formica Infiniti® thus the following will help to minimize inside corner stress cracking:

When using contact adhesive, stress crack performance will be greatly improved if PVAc (white or yellow glue) is used at all inside corners (see below).

NOTE: Waterproof PVAc adhesives (yellow glue) are available for assemblies which require water resistance.

a. Mask the ColorCore®2 material and substrate area around the cutout prior to applying the contact adhesive.

b. Apply a PVAc adhesive to the masked area just before the ColorCore®2 material and substrate are joined and nip rolled to fuse the contact adhesive.

c. Clamp the area bonded with PVAc until the adhesive has set (usually one hour).

ASSEMBLY

Material, equipment and workmanship must conform to the industry standard practices, conditions, procedures and recommendations as specified by ANSI/NEMA LD3-2005, Section 4, Architectural

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TECHNICAL DATA

Woodwork Quality Standards. Formica Infiniti® laminate sheets have a special anti-fingerprint resistant surface. We recommend the use of sharp, carbide tipped cutting blades with low or negative hook profiles. Low feed speeds and high tool speeds are also suggested. A board should be clamped to the saw fence to hold the product down and prevent flutter/ vibration while cutting. Panel assemblies should be laminated with a suitable balancing sheet to minimize warpage. Always align sanding marks in the same direction. All inside corners of cutouts must be radiused as large as possible (⅛" (3.18mm) minimum) to avoid stress cracking. The edges and corners should be filed smooth and free of chips or nicks.

POSTFORMING

Formica Infiniti® laminate sheets can be formed similarly to conventional High Pressure Laminates, but as they are slightly thicker and thus more mass, it will take longer to heat than conventional HGP grade. We recommend preheating to 250°-290°F. Ideal postforming temperature is 325°-370°F. Tempilaq® (gray colored) can be used to determine the proper temperature. Formica Infiniti® laminate sheets can be postformed to a minimum ⅝" (16mm) outside radius and 3/16" (4.8mm)inside cove radius. Slight color change in the cove is normal, and does not indicate a product defect. Coves should be formed at 300°-360°F. Each process is different and changes may be necessary for optimal results.

Formica Infiniti® ColorCore®2 is not postformable.

HOW TO SPECIFY

Surface shall be Formica Infiniti® laminate sheets from Formica Corporation, Cincinnati, Ohio.

COLOR NUMBER

COLOR NAME

GRADE **A7 & CC**

FINISH **AN**

Formica Infiniti® laminate sheets meet the minimum performance standards of the International Organization of Standardization, ISO 4586-2, and of the National Electrical Manufacturers Association, ANSI/NEMA LD3-2005.

USE AND CARE

Formica Infiniti® laminate may be cleaned with a damp cloth and mild detergent. Use of abrasive cleaners, powders, scouring pads, steel wool, sandpaper, etc., will damage the finish and can permanently reduce the stain and chemical resistance of the laminate. Due to the chemical resistant nature of Formica Infiniti® laminate, the use of bleach, ammonium chlorides and other antimicrobials will not harm the surface. Burnishes can be removed by the following thermal healing process.

TECHNICAL SERVICES

Full copies of a specific test report can be obtained by calling 1-800-FORMICA™ (option 2). All reports from independent research organizations and test labs apply only to the actual specimen or specimens studied and not to any similar materials or product, nor to any production run of such material or products. Any information or suggestion concerning applications, specifications or compliance with codes or standards is provided solely for your convenient reference and without any representation as to accuracy or suitability. Formica Corporation disclaims any legal responsibility. The user must verify and test the suitability of any information or products for their own particular purpose or specific application.

THERMAL HEALING

Tools needed: iron, paper towel, water

Place paper towel on the burnished area and spray with water. Iron 4 to 5 times with the iron on its highest setting. Remove paper towel and wipe dry. Repeat as needed.

NOTE: Thermal Healing process will not repair scratches and gouges.

TECHNICAL DATA

Performance compliance of Formica Infiniti® by Formica Group: ANSI/NEMA STANDARDS PUBLICATION

– INDOOR BROCHURE APPEARANCE

PHYSICAL PROPERTIES	*LD3 TEST*	*FORMICA INFINITI®*	*NEMA STANDARDS*
Appearance	**3.1**	No ABC Defects	No ABC Defects
Cleanability/Stain Resistance Reagents 1 – 10 Reagents 11 – 15	**3.4**	 No Effect Slight Effect	 Slight Effect Slight Effect
Boiling Water Resistance	**3.5**	Slight Effect	Slight Effect
High Temperature Resistance	**3.6**	Slight Effect	Slight Effect
Linear Glass Scratch Resistance	**3.7**	50-100 Moderate	50-100 Moderate
Ball Impact Resistance (in.)	**3.8**	30" (762 mm)	30" (762 mm)
Dart Impact Resistance (in.)	**3.9**	11.8" (300 mm)	11.8" (300 mm)
Radiant Heat Resistance (sec)	**3.10**	55	100 (minimum)
Dimensional Change Machine Direction Cross Direction	**3.11**	 1.0% 1.2%	 1% (maximum) 1.4% (maximum)
Water Resistance (cycles)	**3.13**	550	400 (minimum)
Forming @ 325°F, 325-370°F	**3.14**	5/8" (16 mm)	5/8" (15.9 mm) minimum
Fire Rating Unbonded		Flame 45	Smoke 100

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CODES AND SPECIFICATIONS

(DOES NOT INCLUDE FORMICA INFINITI® COLORCORE®2)

Greenguard Gold Indoor Air Quality Certified®

NSF approved

ANSI / NEMA LD3-2005 Compliant

SEFA 8.1 Approved

ASTM G 21 Approved

JIS Z 2801 Approved

PRODUCT SPECIFICATIONS

GRADE	*TYPICAL THICKNESS*	*FINISH*	*SIZE*
A7 (postformable)	.037"(0.9mm)	-AN	4'x8', 5'x12'
CC (non-postformable)	.034"(.86mm)	-AN	4'x10'

COLORS AND PATTERNS

Formica Infiniti® laminate sheets are available in all Formica® Brand standard colors. Note: Color will tend to shift from standard laminate. Request a sample for true color representation.

LIMITED WARRANTY

Formica Corporation expressly warrants that, for a period of (1) one year from the date of first sale, Formica Infiniti® laminate by Formica Group will be reasonably free of defects in materials and workmanship, and that, when properly handled and fabricated, will conform, within accepted tolerance, to applicable manufacturing specifications.

Colors subject to dye lot variations. This limited warrant y only applies to Formica Infiniti® laminate which is stored, handled, fabricated and installed in the manner recommended by Formica Corporation. Due to the variety of uses and applications to which

Formica Infiniti® laminate may be put, FORMICA CORPORATION CAN MAKE NO WARRANT Y THAT THIS PRODUCT IS SUITABLE FOR ANY PARTICULAR PURPOSE AND CAN MAKE NO OTHER WARRANTIES, EXPRESED OR IMPLIED, OTHER THAN THOSE SE T FORTH ABOVE.

DISCLAIMER OF WARRANTIES

THE WARRANTIES SE T FORTH HEREIN OR IN FORMICA CORPORATION'S WARRANT Y DOCUMENTS WITH RESPECT TO A PRODUCT ARE THE ONLY WARRANTIES MADE BY FORMICA CORPORATION IN CONNECTION WITH THESE PRODUCTS, AND

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LIMITATION OF LIABILITY

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OR FOR ANY LIABILITY OF BUYER TO ANY THIRD PARTY WITH RESPECT THERE TO. BUYER SHALL INSPECT FOR NONCONFORMITY PROMPTLY UPON RECEIPT. FAILURE BY BUYER TO GIVE FORMICA CORPORATION WRIT TEN NOTICE OF CL AIM WITHIN 30 DAYS FROM DATE OF DELIVERY OR, IN THE CASE OF NON-DELIVERY FROM

THE DATE FIXED FOR DELIVERY, SHALL CONSTITUTE A WAIVER BY BUYER OF ALL CLAIMS IN RESPECT OF SUCH PRODUCTS.

MANUFACTURER

Formica® Brand Laminate sheets are manufactured by Formica Corporation.

TECHNICAL SERVICES

Technical assistance may be obtained through your local Formica® Brand Products Distributor or from Formica Corporation trained representatives in sales offices throughout the country. To assist these representatives, Formica Corporation maintains a sales and technical services staff in Cincinnati, Ohio. For technical assistance, contact your distributor or sales representative; write the company directly at Formica Corporation Technical Services Department, 10155 Reading Road, Cincinnati, OH, 45241; call (513) 786-3578 or 1-800-FORMICA™; or fax (513) 786-3195. In Canada, call 1-800-363-1405. In Mexico, call (525) 530-3135.

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