



ICE FLOORING

TECHNICAL DATA SHEET

MIX RATIO
2A : 1B

1

ICE FLOORING: HIGH GLOSS EPOXY CLEAR TECHNICAL DATA SHEET

DESCRIPTION

ICE FLOORING is a solvent-less, two component epoxy coating system, low viscosity creating vibrant color and high gloss finish. Its finish reflects light beautifully thus visually enhancing the look, style, appearance and size of any room. Mixed together with our metallic pigment you can create a unique one of a kind floor tailored to your individual tastes and requirements.

ADVANTAGES

- Dense surface resistant to bacteria and moisture and easy to clean.
- May apply several layers on itself with excellent adhesion.
- Contains no solvent with a very low VOC content (**VOC = 75.4 g/L**), allowing for interior application without harmful odors.
- Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good bond to the substrate.

TECHNICAL SPECIFICATIONS AND MECHANICAL DATA

COLOR	Clear
MIX RATIO, BY VOLUME (RESIN: HARDENER)	2:1
MIX RATIO, BY WEIGHT (RESIN: HARDENER)	Clear: A:B = 100:41-48 Colors: A:B = 100:39-45 Mixture = 200
VISCOSITY @ 77°F (25°C)	MIX (CLEAR): 600-800 CPS MIX (COLORS): 1200-1400
WORKING TIME @ 73°F (23°C)	40 min
OVERCOATABILITY @ 50-77°F (10-25°C)	24 - 48 h
DRY TOUCH	24-36 h relative to the mass
IDEAL WORKING TEMPERATURE RANGE	50-77°F (10-25°C)
RECOMMENDED THICKNESS (PRIMER)	10 mils (150 ft ² /gal)
RECOMMENDED THICKNESS (FINISH COAT)	16 mils (100 ft ² /gal)
BOND RESISTANCE (PSI), ASTM D4541	> 300 (substrate ruptures)
PERMEABILITY (%), ASTM D570	0.3%
HARDNESS (SHORE D), ASTM D2240	85-90
ABRASIVE RESISTANCE, ASTM D4060 (CS17 / 1000 CYCLES / 1000 G)	0.10 g
TENSILE STRENGTH (PSI), ASTM D638	5500
COMPRESSIO COMPRESSIVE STRENGTH (PSI), ASTM D695 N STRENGTH	14000
FLAMMABILITY	Class I (Not considered Flammable, Flash Point > 199.4°F (93°C)
ELONGATION (%), ASTM D638	6.7
RESISTANCE TO MOLD GROWTH, ASTM D3273	Rated 10 (highest resistance)
RESISTANCE TO FUNGI GROWTH, ASTM G21	Rated 0 (no growth)
VOC	75.4 g/L

IMPORTANT NOTES The indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage. The indicated viscosity is for clear product only. Any addition of colorant may affect the viscosity.

SURFACE PREPARATION

OLD CONCRETE Concrete surface must be cleaned. BLASTRAC, sand blasting, diamond grinder w/30 grit or coarse, or water blasting is highly recommended to remove surface contaminants. Any oils and fats must be removed prior to product application. Acid etching may be required (followed by a thorough rinsing) to open the pores of the concrete to accept a primer. Do not apply to wet substrates. Chloride, moisture, and pH levels should be checked prior to application.

NEW CONCRETE The concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 MPa (3625 lb/inch²) after 28 days and traction resistance must be at least 1,5 MPa (218 lb/in²). BLASTRAC, sand blasting, diamond grinder w/30 grit or coarser or acid etching (followed by a thorough rinsing) is required to remove the surface laitance that appeared during the curing process. A primer should be used to reduce out-gassing and promote adhesion.

MIXING

Materials should be pre-conditioned to a minimum of 50°F (10°C) prior to use. Thoroughly mix each component separately. Pour component B (clear or colored) into component A using the proper mixing ratio of 2A:1B by volume. Mix both components for at least 1 minute using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life of mixture.

APPLICATION

Apply mixed product on the prepared surface tightly (thin film) using a rubber rake and pass a roller to obtain a uniform coating. Avoid creating puddles.

CLEANING

Clean all tools and materials with the cleaner/thinner for epoxies. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.

RESTRICTIONS

- Minimum/Maximum temperature of substrate: 50°F / 86°F (10°C / 30°C)
- Maximum relative humidity during application and curing: 85 %
- Substrate temperature must be 5.5°F (3°C) above dew point measured
- Humidity content of substrate must be < 4 % when coating is applied
- Do not apply on porous surfaces where a transfer of humidity may occur during application
- Avoid exterior use on substrates at ground level
- Protect from humidity, condensation and contact with water during the 24 hour initial curing period
- Surface may discolor in areas exposed to regular ultraviolet light

HEALTH AND SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation.

Consult the material safety data sheet for further information.

IMPORTANT NOTICE

All statements, recommendations and technical information contained in this document are accurate to the best knowledge of ICE EPOXY. The data relates only to the specific material designated herein. It may not be valid if used in combination with any other materials. It is the users' responsibility to verify suitability of this information for their own particular use, and to test this product before use. ICE EPOXY assumes no legal responsibility for use upon these data. ICE EPOXY assumes no legal responsibility for any direct, indirect, consequential, economic, or any other damage except to replace the product.