ResinForce®

Technical Data Sheet

# Low Viscosity Metallic Epoxy

## DESCRIPTION:

***ResinForce® LV Metallic Epoxy (RF-LVME)*** is a is a solvent-free, two component (2:1), low viscosity epoxy coating system with UV Blockers to be as UV Resistant as possible for a premium epoxy coating system. It exhibits very good appearance, chemical and physical properties. It was developed for systems that require a low viscosity epoxy coating for easier application and maximum artistic appearance.

## TECHNICAL DATA @ 77°F:

| | | PART A Resin 3 US Gal. | PART B Hardener 15 US Gal. | |
|---|---|---|---|---|
| **Color** | | **PART A** Upon Request | **PART B** Clear to Amber | **Mix** Upon Request |
| **Recommended Thickness** | | Primer<br>Finish Coat | 6-8 mils<br>8-12 mils | |
| **Mileage per gallon (8 mils thick)** | | 200 ft² | | |
| **Shelf Life** | | 12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards. | | |
| **Mix Ratio,** by volume | | A:B = 2:1 (100:50) | | |
| **Mix Ratio,** by weight | **Clear**<br>**Colors** | A:B=100: 41-48<br>A:B=100: 39-45 | | |
| **Gel Time (454g)** | | 40-50 minutes @ 77°F | | |
| **Solids Content,** by weight | | 100% | | |
| **Solids Content,** by volume | | 100% | | |
| **Specific Gravity** | | **PART A** | **PART B** | **Mix** |
| | **Clear** | 1.05 - 1.10 | 0.9 - 1.0 | ----- |
| | **Colors** | 1.10 - 1.15 | 0.9 - 1.0 | ----- |
| **Thinner Recommended** | | XYLENE | | |
| **Waiting Time/Overcoat Ability** | | **Substrate Temperature** | **Minimum** | **Maximum** |
| Before Applying ***RF-LVME*** over Primer | | +50 ˚F | N.A. | N.A. |
| | | +68 ˚F | 12 Hours | 2 Days |
| | | +86 ˚F | 6 Hours | 1 Day |
| Before Applying Second Coat of ***RF-LVME*** | | +50 ˚F | 30 Hours | 3 Days |
| | | +68 ˚F | 24 Hours | 2 Days |
| | | +86 ˚F | 16 Hours | 1 Day |

| **Curing Details** | **Substrate Temperature** | **Foot Traffic** | **Light Traffic** | **Full Cure** |
|---|---|---|---|---|
| | +50°F | N.A | N.A | N.A |
| | +68°F | 24 Hours | 3 Days | 7 Days |
| | +86°F | 16 Hours | 2 Days | 5 Days |

**Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity. **

## TECHNICAL PROPERTIES:

***RF-LVME Properties: Based on 73°F @ 50% RH****

Working time..... 35-40 Mins
Tack Free..... 8-12 Hours
Light Traffic..... 24 Hours
Pot Life.....40-50 Mins
Re-Coat Time.....16-24 Hours
Full Cure..... 5-7 Days

**Note: Higher temperatures and humidity will shorten pot life and cure times. Colder temperatures and/or lower humidity will extend pot life and cure times.*

## SURFACE PREPARATION:

The concrete surface must be deemed mechanically and structurally sound, thoroughly clean of debris, oils, fats, waxes, sealers, curing agents, and other contamination. New concrete must be fully cured for a minimum of 28 days. Do not apply to wet concrete. Chloride, moisture, and pH levels should be checked prior to application. Mechanically prep the concrete surface by shot blasting or diamond grinding with 30 grit or coarser diamonds to achieve a dust free CSP-3 profile. If applying over existing coating, beyond the re-coat window, the surface should be sanded thoroughly with 60-120 grit sand paper until the surface is completely abraded with scratches. Substrate and material temperature should be 59°F - 86°F with a maximum relative humidity of 85%. If applied outside these limits the coating may have excessive air entrapment, bubbles, blisters, blushing, hazing, curing issues, or adhesion issues.



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## COVERAGE RATE:

Primer Direct to Concrete: 100-150 sq ft per gallon (10-16 mils)
Metallic Coat over Primer: 30-50 sq ft per gallon (32-40 mils)
Not recommended for exterior use.

## MIXING:

Pre-mix Part A and Part B separately with a stir stick, low speed mixer, or vigorously shake containers prior to combining components together to ensure uniform distribution of raw materials. When using a 3-Gallon Kit, the Part A container can be used as the mixing container. A Paint Strainer bag may also be used after adding mica powders to minimize clumps and comets. Pour contents from Part B container into the Part A container, then mix with a helix or jiffy mixer for 2 minutes at various angles, directions, scooping sides, bottom, and all around for a good uniform mix. For best results, pour contents into a separate clean container and mix again for 30 seconds to avoid any unmixed material clinging to walls of the container. Avoid creating a vortex in the material which could introduce air and/or moisture content to the mixture. Immediately pour contents out of the pail onto the floor to begin spreading. Discard the pail promptly, do not leave it tilted upside down on the floor.

## APPLICATION:

Apply mixed material by pouring onto the surface and spread with a flexible squeegee, lint free roller, or T-Bar. Use a brush or small roller for edges, corners, and other hard to reach areas. If the material becomes thick while applying and sticking to the application tools, stop applying and discard the mixed material. Clean-up tools and equipment with Xylene. FOR PROFESSIONAL USE ONLY! Refer to TDS for more information.

## RESTRICTIONS:

Minimum/Maximum temperature of substrate: 59°F / 86°F. Maximum relative humidity during application and curing: 85%. Substrate temperature must be 59°F. 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 & 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 a physician. For respiratory irritations, move affected person outdoors to fresh air. Remove contaminated clothes and wash before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke irritation. Avoid eye contact. Contact with product may cause severe burns. Avoid breathing vapors released 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. Always work in a properly ventilated area.

## WARRANTY

All statements, recommendations and technical information contained in this document are accurate to the best knowledge of ***ResinForce® Products, LLC***. 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 the suitability of this information for their own particular use, and to test this product before use. ***ResinForce® Products, LLC*** assumes no legal responsibility for use upon this data. ***ResinForce® Products, LLC*** assumes no legal responsibility for any direct, indirect, consequential, economic, or any other damage except to replace the product or refund the purchase price as set out in the purchase agreement.

## PART A INGREDIENT DISCLOSURE:

| | |
|---|---|
| ***CAS 25085-99-8*** | Bisphenol a diglycidyl ether homopolymer |
| ***CAS 17557-23-2*** | Neopentyl Glycol Diglycidyl Ether |
| ***CAS 28064-14-4*** | Phenol, polymer with formaldehyde, glycidyl ether |
| ***CAS 100-51-6*** | Benzenemethanol |
| ***CAS 68609-97-2*** | C12-14-Alkyl glycidyl ether |

## PART B INGREDIENT DISCLOSURE:

| | |
|---|---|
| ***CAS 2855-13-2*** | Isophorone diamine |
| ***CAS 84852-15-3*** | 4-Nonylphenol, branched, |
| ***CAS 9046-10-0*** | Polyoxypropylene diamine |
| ***CAS 100-51-6*** | Benzyl alcohol |

**FOR MORE INGREDIENT INFORMATION VISIT WWW.RESINFORCE.COM**

**FOR PROFESSIONAL USE ONLY!**

This data sheet provides typical properties for ***ResinForce® Products, LLC***. Before using this product, the user is advised and cautioned to make their own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. Please consult our SDS for further safety information.