

DESCRIPTION:

ResinForce® Crack Gel FC 4H is a two component, 100% solids, sag resistant structural epoxy system designed to patch vertical or horizontal cracks. It has excellent adhesion to concrete, masonry, wood, metal and plastics.

ADVANTAGES:

Easy to apply and clean
Suitable for interior application
VOC Compliant
Very low odor, Excellent adhesion to concrete

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 or crack chaser blade. Substrate and material temperature should be 59°F - 86°F with a maximum relative humidity of 85%.

MIXING:

Materials should always be kept at a minimum temperature of 59°F prior to use. Pour component B into component A using the proper mixing ratio of 2A:1B by volume. Mix both components for at least 3 minutes 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 to the dust free prepared surface using a trowel or a putty knife.

CLEAN UP:

Clean all tools and materials with Xylene. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.

LIMITATIONS:

- Minimum/Maximum temperature of substrate: 59°F / 86°F.
- Maximum relative humidity during application and curing: 85 %.
- Substrate temperature must be 59°F, 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.

TECHNICAL PROPERTIES:

Crack Gel Fast Cure 4H Properties: Based on 73°F @ 50% RH*

| | | | |
|--------------------|-----------|-------------------|------------|
| Working time..... | 5-15 Mins | Pot Life..... | 10-15 Mins |
| Tack Free..... | 2-3 Hours | Re-Coat Time..... | 2-3 Hours |
| Light Traffic..... | 4 Hours | Full Cure..... | 4 Hours |

*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.

| TECHNICAL DATA @ 77°F: | | | |
|---|---|---|-----------------------------|
| PART A Resin 0.5 US Gal. | | PART B Hardener 0.25 US Gal. | |
| Color | PART A White | PART B Amber | Mix Beige |
| Mileage per gallon | Varies according to application | | |
| 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 | | |
| Mix Ratio, by weight | A:B=100:41 | | |
| Pot Life (454g) | (15-25 minutes @ 25°C 8H)(10-15 minutes @ 25C 4H)(5-10 minutes @25C 2H) | | |
| Solids Content, by weight | 100% | | |
| Solids Content, by volume | 100% | | |
| Density (kg/L) | PART A 1.12 | PART B 0.93 | Mix ----- |
| Thinner Recommended | XYLENE | | |
| Coating Window | 2-3 Hours | | |
| <i>*Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity. *</i> | | | |
| Viscosity @ 25°C | PART A 150000-180000 | PART B 125000-150000 | Mix 105000-125000 |
| Compression Resistance (psi), ASTM D695 | 13000-15000 | | |
| Traction Resistance (psi), ASTM D638 | 65000-75000 | | |
| Elongation %, ASTM D638 | 6.7 | | |

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 (epichlorohydrin) epoxy resin
 CAS 68609-97-2 Alkyl (C12-C14) glycidyl ether
 CAS 100-51-6 Benzyl Alcohol CAS 100-51-6

PART B INGREDIENT DISCLOSURE:

CAS 2855-13-2 Isophorone diamine
 CAS 100-51-6 Benzyl Alcohol
 CAS 84852-15-3 4-nonylphenol, branched
 CAS 9046-10-0 Polyoxypropylene diamine

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.