

PRODUCT DATA SHEET

ECTR

Standard Epoxy Coating

PRODUCT DESCRIPTION

ECTR is a general service, two component, glossy, 100% solids, low VOC, low odour, water-clear epoxy resin and it is also available as a factory pre-tinted product with a selection of high volume stock colours.

ECTR can be applied as a smooth non-textured finish, or custom aggregate textured finish using very fine to aggressive coarse aggregates that improve traction values on wet or contaminated surfaces.

WHERE TO USE

ECTR may only be used by experienced professionals.

- ECTR is typically used to protect new surfaces or restored existing deteriorated concrete floors
- It can be applied clear or pigmented, typically installed as a concrete primer, high-build smooth coating or as a binder for broadcast or trowel applied surfacing

CHARACTERISTICS / ADVANTAGES

- Excellent protection for new or restored concrete substrates
- Glossy aesthetic finish.
- Durable, impermeable, and seamless
- Very good mechanical and chemical resistance
- Easily cleaned and maintained
- Low VOC / low odour suitable for application in occupied facilities

APPROVALS / CERTIFICATES

Meets the requirements of CFIA for use in food plants.

PRODUCT INFORMATION

Packaging	Components A+B: 11.35 L (3 US gal) unit Component A: 7.57 L (2 US gal) Component B: 3.78 L (1 US gal)
Appearance / Colour	Water-clear / pretinted in White, Silver, Light Grey and Medium Grey
Shelf Life	12 months in original unopened packaging.
Storage Conditions	Store dry between 5 °C and 32 °C (41 °F and 89 °F)
Volatile organic compound (VOC) content	< 25 g/L (Clear)

TECHNICAL INFORMATION

Shore D Hardness	~85
Pull-Off Strength	> 2.4 MPa (> 350 psi) (substrate failure)

APPLICATION INFORMATION

Mixing Ratio	Clear Resin and Factory Pre-tint A:B = 2:1 (by volume)		
Consumption	Smooth Coating: Prime coat: (8 mil) 5 m ² /L (203 ft ² /US gal) Finish coat: (15 mil) 2.6 m ² /L (106 ft ² /US gal) Note: Actual coverage rates and material consumption will depend upon porosity and profile of substrates. Test sections are recommended to establish correct coverage.		
Product Temperature	Condition product at temperatures between 18 °C to 30 °C (65 °F to 86 °F) before using and during the application.		
Ambient Air Temperature	Minimum: 10 °C (50 °F) Maximum: 30 °C (85 °F) Note: Mixing and application attempted at material, ambient and/or substrate temperature conditions less than 18 °C (65 °F) will result in a decrease in product workability and slower cure rates.		
Relative Air Humidity	Maximum 85 % (during application and curing).		
Dew Point	Substrate must be at least 3 °C (5 °F) 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.		
Substrate Temperature	Minimum: 10 °C (50 °F) / Maximum: 30 °C (86 °F) Note: Any attempt to apply ECTR at substrate temperature conditions less than 18 °C (65 °F) will result in an increase in viscosity and slower cure rates.		
Substrate Moisture Content	Moisture content of concrete substrate must be ≤ 4 % by mass (pbw – part by weight) as measured with a Tramex®CME / CMExpert type concrete moisture meter on mechanically prepared surface.		
Pot Life	Material Temperature 23 °C (73 °F)	Time ~55 minutes	
Curing Time	Substrate Temperature 23 °C (73 °F)	Tack Free ~8 hours	Full Cure ~7 days
	Note: - Freshly applied material should be protected from dampness, condensation, and water for at least 48 hours. - Mechanical, chemical, and physical properties will be fully achieved at full cure.		
Waiting Time / Overcoating	Substrate Temperature 23 °C (73 °F)	Minimum ~ 8 hours	Maximum 48 hours

IMPORTANT: If the maximum waiting time has been exceeded. The previous coat must be lightly sanded, to remove all gloss; vacuum cleaning using a

brush attachment followed promptly with a solvent wipe off the surface as per the following generally accepted practices:

- **Avoid using solvent that can leave a oily residue:** (such as, but not limited to most mineral spirit).
- **Avoid Paper Towels:** Pre-treated shop towels or standard paper towels may contain silicone or manufacturing additives that will ruin your paint job. Stick to lint-free cotton cloths or dedicated microfiber towels.
- **Change Rags Frequently:** As soon as a rag becomes visibly dirty, discard it or fold it to a clean side. Continuing to wipe with a saturated, dirty rag just re-deposits contaminants onto the surface.
- **Wet Wipe:** Pour a solvent (onto the first rag. Do not dip the rag into the solvent container; pour it directly to keep your supply clean).
- **Lift:** Wipe down a small, manageable section (e.g., ~0.5 m² [~ 4-6 ft²]) of the surface. Use enough pressure to break up and lift the oils or sanding dust. Rotate the cloth frequently so you are always using a clean spot.
- **Dry Wipe:** Before the solvent can flash off (evaporate) and dry on the surface, wipe the same section with a second, clean, lint-free rag. When used correctly, this second cloth absorbs residual solvent and removes materials that could reduce or prevent adhesion or the proper performance of the next coat.

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

Properties tested at 23 °C (73 °F) and 50% R.H. unless stated otherwise.

LIMITATIONS

NOTE: The user is solely responsible for the proper use of the product. Site visits carried out by Sika® personnel are intended solely, when requested by user, to provide written technical application recommendations based on Sika® documentation. They are in no way intended to supervise, approve or control the quality of the work performed on site. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose.

- Do not apply on porous surfaces where a transfer of moisture vapour may occur during application.
- Do not apply on porous surfaces where outgassing conditions are present during the application of ECTR.
- Do not apply to surfaces where moisture vapour can condense and freeze.
- Do not apply to cracked or unsound substrates.
- Do not use on exterior, ECTR is for interior use only.
- Do not featheredge ECTR.
- Do not apply for negative side waterproofing.
- Do not apply to substrates exposed to extreme thermal shock.
- Do not dilute ECTR. Adding diluents (water, solvent, etc.) will slow curing and reduce the final properties of this product. Diluents must never be added to the

mixture. Adding diluent will void any applicable Sika® warranty.

As well, Sika recommends:

- To maintain and extend existing expansion joints through the Sika® Ucrete® flooring system”.
- That applied material will follow undulations, depressions, lines, etc. of the underlying substrate. Visual appearance of the finished surface may vary, including, but not limited to, reflection of “waviness”, wall transitions, etc.
- That any aggregate used with ECTR must be non-reactive and oven-dried.
- To take into account that the mechanical and physical properties are achieved when full curing is complete.
- That freshly applied material should be protected from dampness, condensation and water for at least 24 hours. Protect substrate during application from condensation from pipes or any overhead leaks.
- To take in account that colour uniformity cannot be completely guaranteed from batch to batch (numbered). Take care when using Sika® Ucrete® products to draw from inventory in batch number sequence, do not mix batch numbers in a single floor area.
- To take into consideration that some light custom colours may produce noticeable shade variations between Sika® Ucrete® systems (e.g., difference between floor and coving mortars). When achieving a uniform appearance is desired (or required), refer to Sika® Ucrete® TC31 NA applied as a top coat.
- To take in account that ECTR will discolour over time when exposed to UV light and under certain artificial lighting conditions. Use Sika® Ucrete® 33 NA as a solid colour, UV resistant top coat. Use of clear, UV resistant top coats may not prevent discolouration

- of underlying materials.
- That direct-fired gas or kerosene heaters produce byproducts that can have adverse effects on the curing resin. To avoid this occurrence, heaters must be exhausted to exterior of the building to avoid defects such as surface blush, whitening, loss of adhesion or other surface deficiencies.
- To beware of airflow and changes in airflow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Concrete surfaces must be clean and sound. The compressive strength of the concrete substrate should be at least 25 MPa (3625 psi) at 28 days and a minimum of 1.5 MPa (217 psi) in tensile strength, at the time of the application.

Substrates must be free of contaminants such as dust, dirt, existing paint films, efflorescence, exudates, laitance, form, hydraulic or fuel oils, brake fluid, grease, fungus, mildew, biological residues or any other contaminants which may prohibit good bond or conditions of the substrate that may reduce the overall performances of ECTR.

SURFACE PREPARATION

Before work commences, examine the areas to be covered and report any improper condition(s) in writing to the general contractor, architect or engineer (or otherwise, the owner). User shall not proceed with the work until surfaces and conditions comply with the requirements indicated in this document; applicable industry standards; federal, provincial and local regulations, as well as good trade practices. By starting work, the Applicator/User acknowledges that the conditions are acceptable.

Prepare the surface by any appropriate mechanical means, in order to achieve a profile equivalent to a minimum of ICRI CSP 3 (note: ICRI CSP 6 will provide better overall performances where high shear stress from dynamic loads may be present or that can reasonably be expected).

Repairs to cementitious substrates, filling of blowholes, levelling of irregularities, etc. should be carried out using an appropriate Sika profiling mortar. Contact Sika

Technical Service for recommendations in writing.

Note: Contact Sika's Technical Service for installation recommendations in writing concerning substrates or conditions not listed.

Expansion Joints

Expansion joints should be provided in the substrates at the intersection of dissimilar materials. Isolate areas subject to thermal stresses, vibration movements or around load-bearing columns and at vessel sealing rings. Communicate with Sika®'s technical services.

The owner (and architect) should discuss joint details with the flooring contractor before the job starts.

MIXING

Mixing ratio A:B = 2:1 (by volume)

IMPORTANT:

- Do not hand mix ECTR; mechanically mix only.
- ECTR must be applied as supplied.

Clear and Factory Pre-tint: Pre-stir Components A and B separately, making sure all solids, are evenly distributed. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin) or empty Component A into a suitably sized and clean pail and add Component B in the correct ratio. Blend the combined components thoroughly at low speed (300 - 450 rpm) for at least three (3) minutes using a drill fitted with an Exomixer® or Jiffy type paddle suited to the dimensions of the mixing container and keep the mixing paddle in the mix to avoid entrapping air. Take care 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 attempt to attend to unmixed material that may gather on the sides of the mixing container while mechanical or electrical parts are in motion. When completely mixed, ECTR should be uniform in appearance and consistency.

Immediately discharge the product and place material on substrate to be coated. Mix subsequent batches promptly.

Notes:

- Mix only that quantity which can be used within its pot life at actual field temperature.
- When using brighter colours, additional coats may be required. Using more colour additive than recommended will result in extended cure times and reduced chemical and abrasion resistance.

APPLICATION

Prime Coat: Apply mixed ECTR as a prime coat onto the substrate using a brush, roller, or squeegee, at a uniform coverage without puddling.

Wear Coat: Once the prime coat is tack-free, apply the wear coat using a brush, squeegee, and backroll to achieve even coverage.

Note: If the Waiting/ Recoat time has passed the previous coat must be lightly sanded, to remove all gloss; vacuum cleaning and solvent wiping will be necessary to remove all traces of dust. The surface should be a uniform dullness, with no gloss present after clean-up and before applying the next coat.

CLEAN UP

Clean all tools and equipment with a non-flammable solvent. Once hardened, product can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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