Xtreme Polishing Systems

Technical Data Sheet
Date: 15 August 2016
Revision #: 1

ECTR-COVE
Epoxy Coving and Detailing Mortar, Vertical Grade

DESCRIPTION	ECTR-COVE is a multiple component, pre-proportioned, epoxy coving and detailing mortar for vertical applications. It is based upon a solvent free, epoxy resin and specifically graded aggregates. It exhibits very good appearance and excellent resistance to abrasion and impact. It is used in conjunction with other epoxy systems to provide a seamless connection between the floor and vertical surfaces such as walls, machinery bases, or curbs. This system has been approved by the Canadian Food Inspection Agency (C.F.I.A).
ADVANTAGES	■ High bond strength and mechanical resistance ■ Low VOC content, low odour ■ Pre-proportioned kit for easy and precise mixing ■ Sag-resistant formulation allows for trowel application to vertical surfaces

TECHNICAL DATA

Packaging	11.4 KG (5 L KIT)
Color	Upon Request
Yield	~ 30 square feet per kit (based on 6 inch high cove applied at thickness of 4mm (3/16in) with a 25mm (1in) radius cove trowel)
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.
Pot Life (454 g)	35-40 minutes @ 25°C

PROPERTIES @ 23°C (73°F) AND 50% R.H.

Service Temperature	Min/Max 0ºC/50ºC (32ºF/122ºF)		
	10ºC (50ºF)	**20ºC (68ºF)**	**30ºC (86ºF)**
Open Time on Substrate (min)	70	45	3 days
Overcoating Time (hours min/max)	24-96	8/48	5/24
Curing Time (Normal traffic/Chemical Exposure in days)	10	7	5

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

Bond Strength (psi), ASTM D4541	>250 (substrate ruptures)
Impact Resistance, ASTM D2794	2.5 ft. lb.
Hardness (Shore D), ASTM D2240	82-85
Abrasive resistance, ASTM D4060 (CS17 / 1000 cycles / 1000 g)	0.15 g
Tensile Strength, ASTM D638	5200 psi
Compressive Strength (psi MPa), ASTM D695	6000 psi
Elongation %, ASTM D638	10%

*** Please note, that the indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage. ***

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 contaminates. 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. In almost every application a primer is recommended prior to use of ECTR-COVE.

New Concrete

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	The concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 MPa (3625 lbs./inch$^{2)}$ after 28 days and traction resistance must be at least 1,5 MPa (218 lbs./inch^2). 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 between 18°C and 30 ºC prior to use. Thoroughly mix each component separately. Pour component B into component A using the proper mixing ratio. Mix both components for at least 1 minute using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. Add component C to the mix, incorporating it slowly into the mix over a period of 15 seconds. DO NOT DUMP! Add component D. Mix the blend for an additional 2 minutes. 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 with a radius cove trowel.
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: 10°C / 30 °C (50 °F / 86 °F). ■ Maximum relative humidity during application and curing: 85 %. ■ Substrate temperature must be 3 °C (5.5 °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.
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 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

The information and recommendations contained in this document are based on reliable test results according to XPS Polishing Systems. The data mentioned are specific to the material indicated. If used in combination with other materials, the results may be different. It is the responsibility of the user to validate the information therein and to test the product before using it. XPS Polishing Systems assumes no legal responsibility for the results obtained in such cases. XPS Polishing Systems assumes no legal responsibility for any direct, indirect, consequential, economic or any other damages except to replace the product or to reimbursement the purchase price, as set out in the purchase contract.