GEMCOAT CR 2-1 - SB

TDS4

DESCRIPTION	Gemcoat CR 2:1-SB is a two-part, solvent epoxy coating that can be applied by brush and roller. It has resistance to most concentrated acids and alkalis, and many other commonly used chemicals, along with good resistance to elevated temperatures – consult with Cotec for suitability for use.
TYPICAL USES	It is formulated as a chemical resistant lining for concrete, steel, and fiberglass secondary containment (bunds) exposed to splash and spillage of chemicals.
PERFORMANCE	To ensure maximum life of coating system chemical deposits must be washed off within 1 hour. Epoxy coatings may show some chalking and colour change over time. This is normal and will not affect performance 4.171 Gemcoat CR 2:1-SB is suitable for its intended use, when mixed and applied according to specification to a properly prepared substrate.
LIMITATIONS	This does not cover physical abuse or impact damage to the system, damage caused by movement of the substrate, faulty substrate, substrate contamination, failure to regularly maintain the system, or normal wear and tear. 4.171 Gemcoat CR 2:1-SB systems must be maintained properly to give best performance – refer to Cotec datasheet on Maintenance of Bund Coatings and Toppings
TECHNICAL DATA	Resin: 2 Componenet Epoxy Solvent: Toulene Appearance: Resin –pigmented liquid, Hardener - clear liquid Colour: Mid Grey Primer: See over. Durability: Excellent Potlife: 60-70 mins @20°C Pack Size: 3 Cure to Handle: Overnight @20°C/65% RH Cure Hard @20°C: 7 days Mixing Ratio: 2:1 Vol Solids: 74 percent Touch Dry: Overnight @20°C Recoat Time: Overnight @20°C Max Recoat Time: 24 Hours @20°C RH 50% Number of Coats: 3 Theoretical Coverage: 5 m²/litre/coat Wet Film Thickness: 200 microns Dry Film Thickness: 148 microns
SPREAD RATE	First Coat: 5 - m²/litre/coat Practical spreading rates will vary depending on such factors as application method, ambient conditions and surface porosity and roughness.
PRODUCT CODES	4.171

PRIMERS AND UNDERCOATS

Substrate	Primer / Undercoat	Technical Data Sheet
Cementitious	GEMREZ CR 1:1	See TDSG4155

SURFACE PREPARATION

Cementitious Flooring-New Unpainted
It is strongly recommended that plaster and concrete is left to age for at least 28 days before coating to allow the concrete to fully cure before application. It is recommended that a moisture test on the concrete is carried out at this stage prior to painting. Refer to PS-C004 The Moisture Content of Concrete.

Note: Surfaces treated with Xypex
Do not proceed with surface preparation or application or other coatings until waterproofing treatment has cured and set for a minimum of 21 days. Light abrasive blasting or washing the Xypex surface with a 3 - 5% acid solution followed by a rigorous rinse with clean water is recommended before applying the coating. Be sure to flush all acid off the surface. Alternately, removal of the Xypex coating by high pressure washing or abrasive blasting following full curing is acceptable.

All surfaces must be clean, and free from dirt, grease, and any other surface contaminant. Clean with TRUEPREP SURFACE CLEANER following instructions, power wash (min 3500 psi) to remove residue and any loose material. Refer PS-C006 Making Concrete Clean and Dry.

All surfaces need to be inspected once degreased and power washed to fully establish the condition of existing substrate (and remaining coating) prior to finally specifying the degree and type of preparation work. Any recommendations made prior to this are guides only.

The substrate needs to be profiled to an open uniform surface suitable for priming, and consideration given as to the most appropriate method of preparation that maintains the substrates integrity.

The method of preparation work (Grinding, media/soda blast, or UHP blasting, acid etching, sanding or other) must be discussed and documented separately. Generally, a full grind to remove existing contamination and profile the surface as above is recommended.

Repair work (surface and crack repair, expansion joints, rebar rust leaching) must be discussed and documented separately. Do not expect paint to successfully bridge gaps and cracks. Refer to PS-C005 Repair of Concrete Defects.

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MIXING INSTRUCTIONS

Add 2 parts hardener to 1 part base and thoroughly mix - a drill with a mixing blade is required.

APPLICATION

Apply by brush, or epoxy safe roller.

BRUSH/ROLLER
Wooster Pro-Dooz 10-13mm nap

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CLEAN UP
Epotec 107 Thinners

APPLICATION NOTES

Concrete
Must have cured a minimum of 28 days. On new or previously painted concrete, grind, abrasive sweep blast, or scabble to give clean, sound substrate with a good key.
Steel
Blast with a suitable abrasive to near white metal (SSPC 10/SA 2.5 standard). If this is not possible remove loose material by mechanical cleaning or high pressure water blast until only light rust is left.
Fibreglass
Abrade surface to give a good key and leave a clean, sound substrate with a good key.
Other surfaces – consult with Cotec.

All surfaces must be primed with 4.155 Gemrez CR 1:1

Three coats of 4.171 Gemcoat CR 2:1-SB is recommended over the top of 4.155 Gemrez CR 1:1 chemical resistant resin.

- Recoat within 24 hours.
- Allow 2 days minimum before putting into service – 7 days is preferred.

THINNING

Epotec 107 Thinners

SAFETY PRECAUTIONS

Refer to the Safety Data Sheet for this product prior to use. Please ensure that they are familiar with all aspects concerning safe application of this product, including appropriate personal protective equipment (PPE). If you are unsure about any health and safety aspects of this product, do not use it.

ENVIRONMENTAL

This formulation uses the latest technology with low toxicity, ensuring environmental issues are not compromised. DO NOT POUR paint or wash down storm water or water courses. ALWAYS dispose of in accordance with local Government regulations. Soak up spills with absorbent material and dispose of properly. If spraying use suitable respiratory protection. Refer to the MATERIAL SAFETY DATA SHEET

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