5.157 GEMBOND EPDM-FC

TDSG5157

DESCRIPTION

Gembond EPDM-FC joint sealant and flexible coating. Used as flexible sealant for concrete joints, and as a coating for light service areas where some flexibility is required. It has a convenient 1:1 mix ratio.

TYPICAL USES

SEALANT:
Can be used for filling floor joints where some
movement occurs to provide support to the edges of the joint. When using as a sealant, pour into concrete joints over specified Cotec epoxy primer– consult Cotec Technical for written specification.
EPDM-FC gives a tough yet flexible sealant which can handle most floor traffic. It is ideal for cool stores, pack houses, factory floors, dairy sheds, changing rooms, toilet and shower blocks etc. When used in Swimming Pools it must be overcoated with EPOTEC NT.

COATING:
It can be thinned with acetone and used as a flexible coating on substrates with relatively light traffic where some movement occurs e.g., changing rooms, toilet and shower blocks, plywood floors, plywood decks etc. It will also adhere to clean butynol –solvent wipe with acetone is recommended

ENVIRONMENT

Interior or exterior Concrete floor Joints. If used in Immersion must be overcoated with EPOTEC NT.

PERFORMANCE

Elongation 60-80%

LIMITATIONS

For best results should not be installed below 5°C.
• Mechanically roughen 5.157 Gembond EDPM if
over coating.

TECHNICAL DATA

Resin: 2 Componenet Epoxy
Solvent: Solventless
Appearance: Resin –pigmented liquid, Hardener - amber liquid
Colour: White RAL 7035 Bondi
Primer: See over.
Durability: Excellent
Potlife: 20 mins @20°C
Pack Size: 2,8,20L MTO
Working Time: 15mins @20°C
Cure to Handle: Overnight @20°C/65% RH
Walk on Time: 24 hours (20°C/50% RH)
Cure Hard @20°C: 24 hours
Shore Hardness: 30
Mixing Ratio: 1:1
Vol Solids: 100 percent
Touch Dry: Overnight @20°C
Recoat Time: Overnight @20°C
Max Recoat Time: 72 Hours @20°C
Number of Coats: 1
Theoretical Coverage: 10 m²/litre/coat
Wet Film Thickness: 100 microns
Dry Film Thickness: 100 microns

SPREAD RATE

First Coat: 10 - m²/litre/coat
Practical spreading rates will vary depending on such factors as application method, ambient conditions and surface porosity and roughness.

PRODUCT CODES

G5157.

PRIMERS AND UNDERCOATS

Substrate	Primer / Undercoat	Technical Data Sheet
Cementitious	TUFFLOOR PRIMER KC	See TDS61-1100
Cementitious	TUFFLOOR WB EPOXY SEALER	See TDS56-700

SURFACE PREPARATION

Cementitious-Aged Unpainted Poor
Moss and Algae: Any algae growth on surfaces must be killed off. The pool will need to be emptied and then treated with TRUEPREP GREEN-KILL following the manufacturer's instructions. This could take multiple applications. Failure to do this and completely kill the roots of the algae that will have grown into the substrate could lead to paint failure and re growth in those areas.

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.

It is recommended that a moisture test on the concrete is carried out at this stage prior to painting to confirm the moisture content of the surface is dry enough to proceed. Refer to PS-C004 The Moisture Content of Concrete.

All surfaces need to be inspected once degreased and power washed to fully establish the condition of existing substrate prior to finally specifying the degree and type of preparation work. Any recommendations made prior to this are guides only.
Any adhesive or glue residues must be completely removed.

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, holes, 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.

Cementitious-Previously Painted Poor
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.

Moss and Algae: Any algae growth on surfaces must be killed off. The surface must be treated with TRUEPREP GREEN-KILL following the manufacturer's instructions. This could take multiple applications. Failure to do this and completely kill the roots of the algae that will have grown into the substrate could lead to paint failure and re growth in those areas.

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.

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.

Aged and worn Alkyd, Epoxy or Polyurethane coatings showing areas of exposed substrate, wear or paint failure must be checked for substrate adhesion and generally will need to be removed. If in any doubt remove.

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 (Sanding, grinding, media/soda blast, or UHP blasting, acid etching or other) must be discussed and documented separately. Generally, a full diamond grind to remove existing coatings and profile the surface as above is recommended.

Refer PS-C006 Making Concrete Clean and Dry to ensure the surface is ready to commence work.

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	SEALANT: With a slow speed drill (80 - 100 rpm) and mixing blade, mix part A and B for 5 - 7 minutes. During mixing make sure that the sides and bottom of the container is scraped, and that the blade is kept below the surface to avoid incorporating air. If using in Vertical control joints add TROWEL-IT to the mix to attain desired consistency to avoid slumping. Work in small quantities and mix a smaller quantity first to gauge TROWEL-IT mixing ratio. COATING: Power mix with a drill and mixing blade thinning 5 - 20% with acetone then apply with brush and roller.
APPLICATION	SEALANT: Pour mixed product into the joint OR a use sealant gun with the correct size nozzle for the joint. Fill joints from bottom up **SPRAY** Not recommended **BRUSH/ROLLER** Use an epoxy safe sleeve for use as coating. **CLEAN UP** EPOTEC 107
APPLICATION NOTES	COATING COVERAGE: information on this TDS is as a coating only. SEALANT COVERAGE - Typical usage: 50mm deep x 6mm wide x 6.7m per 2l kit Contact Cotec Technical for coverage rates as a sealant.
THINNING	Acetone
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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