

## Gemcoat ES-WB

TDSG9302

<b>DESCRIPTION</b>	A waterbased epoxy sealer for concrete and wood. 9.302 Gemcoat ES-WB is a low sheen, water based, epoxy resin formulated for interior use as a hard, resistant, clear sealer for concrete e.g., shop or factory floors. It has excellent impact resistance, flexibility, and colour stability. It is ideally suited for application over ground concrete.
<b>TYPICAL USES</b>	Seal or dust coat for factory floors.
<b>PERFORMANCE</b>	Multiple coats can typically be applied in 1 day due to short recoat time. Grinding of concrete is recommended. Can be applied at low temperatures. Will tolerate damp surfaces but is not a waterproofing agent. Excellent levelling properties. Protects concrete from staining and marking.
<b>LIMITATIONS</b>	Sanding between coats is recommended if more than 24 hours has elapsed. New concrete must be >28 days old prior to coating. A test patch is recommended if the product has not been used before. ES-WB is a coating, so whilst very durable, it is still susceptible to scratching. Cannot be applied to new floors treated with curing compounds or other similar products.
<b>TECHNICAL DATA</b>	Resin: 2 Component Epoxy Solvent: Water Appearance: Clear Colour: Clear Durability: Good Thining and Clean Up: Water Potlife: 2 Hours @20°C Pack Size: 4,10,20L Walk on Time: 24 hours (20°C/50% RH) Cure Hard @20°C: 7 days VOC: 0 Vol Solids: 35 percent Touch Dry: 60 minutes @20°C Recoat Time: 2 Hours @20°C Max Recoat Time: 24 Hours @20°C RH 50% Number of Coats: 2 to 3 Theoretical Coverage: 8 m <sup>2</sup> /litre/coat Wet Film Thickness: 100 microns Dry Film Thickness: 35 microns
<b>AVAILABLE FINISHES @60°C</b>	<b>Sheen</b> Low Sheen
<b>SPREAD RATE</b>	First Coat: 8 - m <sup>2</sup> /litre/coat Second Coat: 14 - m <sup>2</sup> /litre/coat Practical spreading rates will vary depending on such factors as application method, ambient conditions and surface porosity and roughness.
<b>PRODUCT CODES</b>	G9302

**SURFACE PREPARATION Cementitious Flooring-Aged Unpainted Good**

All surfaces need to be inspected once cleaned and power washed to fully establish the condition of existing surface prior to finally specifying the degree and type of preparation work.

It is strongly recommended that plaster and concrete repair work 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 INFORMATION SHEET: PS-C004 The Moisture Content of Concrete MAR 20

**Moss and Algae:** Any algae growth on surfaces must be killed off. The surface will need to 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 must be clean, and free from dirt, grease, and any other surface contaminant.

Clean with TRUEPREP SURFACE CLEAN following instructions, power wash (min 3500 psi) to remove residue and any loose material.

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.

Surface preparation: The method of preparation work (Diamond Grinding, media/soda blast (sweep blasted with fine grit), UHP blasting, or other) must be discussed and documented separately, to ensure the correct surface profile is achieved before painting.

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 INFORMATION SHEET: PS-C005 Repair of Concrete Defects Mar 20

**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.

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**COATING TECHNOLOGIES LIMITED**

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**MIXING INSTRUCTIONS** Thoroughly mix Part A, prior to adding part B

**APPLICATION** Add 1 part hardener to 1 part base (by volume) and thoroughly mix - a drill with a mixing blade is required.

Roller or Microfibre Mop.

Recoat within 24 hours – sanding between coats is recommended after 24 hours.

Two (2) or more coats are recommended.

### BRUSH/ROLLER

Apply with roller or microfibre mop in thin coats, avoid pooling. Roller application for the first coat is recommended to ensure adequate working in of the product to the surface.

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**PRECAUTIONS**

Do not seal any concrete under 28 days old.  
 Do not apply to external concrete surfaces or vehicular traffic areas (i.e. garages).  
 Do not apply to highly burnished or very 'tight' floors.  
 Do not apply to concrete surfaces that have been treated with concrete densifiers/hardeners.  
 Do not apply to concrete surfaces that are not completely dry, not just surface dry.  
 Do not apply to any surface that has been previously treated with another product i.e. other sealers, curing compounds, etc.  
 Do not seal concrete if the concrete temperature (not atmospheric) is below 12°C or above 30°C.  
 Do not dilute.  
 Do not add PFL Anti-Slip.  
 Do not use as a filler – any cracks, pitting or pinholes must be treated prior to application.  
 Do not cover the sealed floor until fully cured.  
 Clean up any spills immediately to avoid staining.

Joinery and furniture should not be placed onto the newly sealed floor until the coating is fully cured to minimise scratching and marking of the sealer.

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**APPLICATION NOTES** Conduct a water test to check if the floor will accept the coating. Drop a small amount of water on the concrete surface. If the water penetrates (darkens) the concrete within 15 - 30 seconds, the concrete is likely to accept the sealer.  
 Prior to application of the sealer to the entire area it is recommended that a test area is conducted first for adhesion and cosmetic approval.  
 Porous floors may require a third coat to form an even surface coating.

Coverage will vary greatly depending on the porosity and texture of the concrete.

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**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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