

SELECTION & SPECIFICATION DATA

Generic Type	Multi-Gard GP 48 is an aliphatic acrylic polyurethane
Description	<p>Available in Australia only; Multi-Gard GP 48 is fast-dry polyurethane coating which provides a high gloss finish which has excellent corrosion, abrasion and chemical resistance.</p> <p>The Multi-Gard GP (general purpose) products are formulated to protect steel substrates in a variety of service exposures typical of industrial OEM equipment destinations and commercial marine conditions. The Multi-Gard line tends toward rapid cure to handle and re-coat to facilitate through-put in shop painting applications.</p>
Features	<ul style="list-style-type: none"> • Direct-to-metal (when used with GP 88 Part B) • Ultra-Fast dry and handle times • Excellent abrasion and chemical resistance • Excellent gloss and colour retention • Suitable for OEM applications • Unlimited recoatability • Excellent aged re-coatability when cleaned with Altex P40 Cleaner • Coloured finishes may be applied by air, or airless spray** <p>**Multi-Gard GP 48 Clear should not be applied using airless or air-assisted airless spray.</p>
Colour	Coral White, Clear, AS2700 & BS 5252 Colour Ranges
Gloss	High Gloss
Primer	Multi-Gard® Etch, GP 22, GP 33 & Carboguard® epoxy coatings
Film Build	50-75 µm
Solid(s) Content	58% by volume
Theoretical Coverage Rates	<ul style="list-style-type: none"> • 11.6 sq. metres / litre at 50 µm • 7.7 sq. metres / litre at 75 µm
VOC Value(s)	As supplied: 453 g/l
Dry Temp. Resistance	Non-Continuous: 121°C (250°F)

SUBSTRATES & SURFACE PREPARATION

General	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. For all surfaces prime with specific Carboline primer as recommended by your Carboline sales representative. Refer to the specific primer's Product Data Sheet for detailed requirements of the specified primer.
Steel	Prime with specific Carboline primer as recommended by your Carboline Sales Representative. Refer to the specific primer's Product Data Sheet for substrate preparation requirements.
Previously Painted Surfaces	Lightly sand or abrade to roughen and degloss the surface. Existing paint must attain a minimum 3B rating in accordance with ASTM D3359 "X-Scribe" adhesion test.

Multi-Gard GP 48(Au)

PRODUCT DATA SHEET



MIXING & THINNING

Mixing	Multi-Gard® GP 48AU is a two component product supplied in 1 litre, 5 litre and 10 litre kits which contain the correct ratio of ingredients. Power-mix the base portion first to obtain a smooth homogeneous condition. After mixing the base portion, slowly add the converter whilst continuing to agitate at slow speed. After addition of the converter is complete, continue to mix slowly until homogeneous. Low speed mixing is recommended to avoid aeration of the mix. Higher temperatures will reduce the working life of the coating; lower temperatures will increase it.
Thinning	Thin with Thinning Solvent #20 (standard) or for warmer conditions use Thinning Solvent #25 (slower) as required for good atomisation; typically between 5% - 20%.
Ratio	4:1 by volume (Part A : Part B)
Pot Life	4 hours at 25°C. AVOID MOISTURE CONTAMINATION

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Conventional Spray	Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, 1.2mm – 1.6mm fluid tip and appropriate air cap
Airless Spray	Airless: Use a pump capable of supplying 3000psi fluid pressure. Spray tip: 0.015-0.019" **Clear is unable to be applied by airless and air assisted airless spray equipment
Brush & Roller (General)	The desired film thickness is easily achieved in a single brush or roller coat; however due to the initial lacquer dry characteristic of this coating additional thinning may be required for a smooth finish. Avoid excessive re- brushing or re-rolling. For best results, tie-in within 10 minutes at 24°C

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C (50°F)	2°C (36°F)	2°C (36°F)	10%
Maximum	38°C (100°F)	49°C (120°F)	35°C (95°F)	80%
Optimum	22°C (72°F)	22°C (72°F)	22°C (72°F)	50%

Industry standards are for substrate temperatures to be 3°C above the dew point. Caution: This product is moisture sensitive in the liquid stage and until fully cured. Protect from high humidity, dew and direct moisture contact until fully cured. Application and / or curing in humidities above maximum, or exposure to moisture from rain or dew may result in a loss of gloss and/or micro-bubbling of the product.

CURING SCHEDULE

Curing Details	<ul style="list-style-type: none">• Dry to Recoat: 24 hrs @ 5°C; 12 hrs @ 15°C; 4 hrs @ 25°C; 4 hrs @ 30°C• Dry to Handle: 30 hrs @ 5°C; 16 hrs @ 15°C; 6 hrs @ 25°C; 5 hrs @ 30°C• Final Cure: 10 days @ 5°C; 5 days @ 15°C; 4 days @ 25°C; 3 days @ 30°C
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CLEANUP & SAFETY

Cleanup	Use Thinning Solvent #2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations
Safety	Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.
Ventilation	Contains isocyanate. When sprayed may be harmful by inhalation - do not breath vapour or spray. Wear suitable clothing, gloves, eye and face protection, including suitable breathing protection such as an air supplied respirator or hood.

PACKAGING, HANDLING & STORAGE

Shelf Life	<ul style="list-style-type: none"> • Part A: 24 months minimum • Part B: 12 months minimum <p>*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers</p>
Storage Temperature & Humidity	<ul style="list-style-type: none"> • 4-40°C • 0-80% RH <p>Store under cool dry conditions</p>
Flash Point (Setaflash)	<ul style="list-style-type: none"> • Part A: 25°C • Part B: 38°C
Packaging	<ul style="list-style-type: none"> • 1 litre, 5 litre & 10 litre kits • DTM Version with MG 88 Part B: 5 litre & 10 litre kits only

WARRANTY

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