



	Data Sheet	
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TITAN MC Gloss Moisture Curing Polyurethane		
<p>! Important Information Mirotone only warrants the quality of the product in the can. It is your responsibility as the user, before application, to ensure that the coating system meets your requirement and is fit for the intended purpose.</p>		
Product Description		
TITAN MC Gloss is an economical, single pack, gloss, moisture curing polyurethane floor finish. This tough, durable coating is ideal for use on interior timber, parquetry and cork flooring. This product is designed for interior use only.		
Features & Benefits		
Easy to Apply:	Roller applied, high gloss finish.	
Single Pack:	No mixing required and less coating waste.	
Excellent Flow & Levelling:	Flows and levels well over both open and closed grain timbers resulting in a smooth uniform finish.	
Durable:	Dries to a tough, flexible, protective film.	
Economical:	The TITAN range provides a cost effective floor coating system for the budget conscious tradesman or DIY customer.	
Typical Applications		
<ul style="list-style-type: none"> Interior timber flooring, particleboard and cork flooring. Not suitable for external applications or wet areas e.g. bathrooms and around swimming pools. <p>Caution: The floor will be slippery when wet.</p>		
Product Properties		
Colour	Clear	
Gloss Level	Full Gloss	
Solids	45% +/-1	
Solvent Resistance	Excellent	
Sandability	Excellent	
Build	High	
Water Resistance	Excellent	
Hardness	Excellent after full cure	
Levelling & Flow	Excellent	
Product Approvals		
AS/NZS 4586:2004: Slip resistance classification of new pedestrian surface materials		
TITAN MC Gloss has been evaluated for pedestrian slip by third party, Advanced Technology Testing & Research (ATTAR) against AS/NZS 4586. The coating system passed the requirements of the standard for "Dry Slip Resistance" and accordingly the products are classified as Dry = F.		
Certificates are available upon request.		
Application Methods		
Application Equipment: 6 mm mohair roller or high quality broad brush can be used to coat the bulk of the floor area. A good quality brush must be used to cut in around skirting boards and edges.		
Application Time		
Only pour out sufficient product to complete the job. Replace the lid immediately to minimise exposure to airborne moisture (avoid premature curing) and minimise solvent loss.		
Once the can is opened the product should be useable for 2-4 weeks provided the lid is replaced immediately after pouring the amount of coating required for each tray. DO NOT RETURN UNUSED PRODUCT TO THE CAN. This will lead to viscosity increase and a change in the flow characteristics of the product.		
Thinning (Additives)		
Thinners 3310 is recommended if necessary to improve flow, overcome slow drying and minimise bubbling. It can be added at a rate of up to 5%.		
Wet Edge Extender 3320 is preferred in hot and/or humid weather to slow drying. It can be added at a rate of up to 5%.		
Sureflow Additive 3350 is the preferred additive to overcome and minimise rejection and flow problems i.e. over oily or contaminated floors. It can be added at a rate of up to 1%.		
Approximate Drying Times @ 20°C		
Sanding:	Overnight	
Light Traffic:	24 hours.	
Full Cure:	10-14 days, during this period floors should not be walked on with street shoes. Complete cure is achieved in 21 days. Care should be taken to avoid dragging furniture over the surface, use protective pads on furniture legs.	

Note: Low temperatures or heavy film thickness may retard drying times and cause frying upon application of subsequent coats. Direct sunlight and draft during drying may affect the final gloss level of the coating

DURAPOL 5995 Accelerator

DURAPOL 5995 Accelerator may be used to speed up the dry time of TITAN MC Gloss.

DURAPOL 5995 Accelerator is recommended for use when the temperature is expected to fall below 20°C during the first 24 hours after application. It is also suitable for use when coating commercial jobs where a faster dry time is required due to the time between coating and resumption of normal use of the floor being shorter.

Directions: Add between 20-40mls of DURAPOL 5995 Accelerator per litre of TITAN MC Gloss (One Capful = 20mls). Only mix enough product to use for one day.

WARNING: DO NOT ADD more than 5% DURAPOL 5995 Accelerator (50mls per litre) as it may result in a milky/hazy or uneven finish and will not further improve dry times.

Shelf Life

12 months. See product label for Use-By date. All products must be stored in sealed containers below 25°C. Do not use product if past Use-By date.

Coverage (theoretical)

Basecoat: Timber Floors - 6-8 m² per litre
Cork Tiles & Particleboard - 5-7 m² per litre
Subsequent Coats: Timber Floors, Cork Tiles & Particleboard - 8-12 m² per litre

Note: The coverage is dependent on the porosity of the substrate.

Packaging

Product	Can Size	Net Contents
TITAN MC Gloss	20 Litre	20 Litre

Equipment Clean Up

Use MIROSOL 1205 Cleaning Solvent or Super Cleaning Solvent 3300 to clean brushes & rollers. Ensure all cleaning solvents are removed before placing rollers and brushes in coating.

Recommended Coating System

3 Day Application System		2 Day Application System	
Day 1	TITAN MC Gloss	Day 1	TITAN Fast Sealer & TITAN MC Gloss
Day 2	TITAN MC Gloss	Day 2	TITAN MC Gloss or DURAPOL [®] Coatings
Day 3	TITAN MC Gloss or DURAPOL [®] Coatings		

Note: TITAN MC Gloss is compatible with Polycure's full range of coatings.

Application System

Coating Uncoated Timber and Parquetry

Preparing the floor to a professional standard is essential for achieving the best results.

- Fill all nail holes with MIROPUTTY or a compatible waterbased putty. Allow to dry.
- Sand uncoated floor with 120-150 grade sandpaper or screenback on a flexible pad to ensure the floor is uniformly dull and smooth with no sanding scratches, nibs or fur. Vacuum thoroughly. Take care to avoid scratching the surface.
- Apply a liberal first coat of TITAN MC Gloss or TITAN Fast Sealer using a 6mm mohair roller cover and only use a brush to cut in around skirting boards and edges. Allow to dry overnight.
- Sand floor with 150-180 grade sandpaper or screenback to remove all nibs, fluff and fur. Vacuum off all dust.
- Apply a second coat of TITAN MC Gloss. Allow to dry.
- Sand floor with 150-180 grade sandpaper or screenback to remove all nibs, fluff and fur. Vacuum off all dust.
- Apply the final coat of TITAN MC Gloss or one of the premium DURAPOL[®] coatings.

Coating New Cork

Preparing the floor to a professional standard is essential for achieving the best results.

- Sand uncoated floor with 120-150 grade sandpaper or screenback on a flexible pad to ensure the floor is uniformly dull and smooth with no sanding scratches, nibs or fur. Vacuum thoroughly. Take care to avoid scratching the surface.
- Apply a liberal first coat of TITAN MC Gloss or TITAN Fast Sealer using a 6mm mohair roller cover and only use a brush to cut in around skirting boards and edges. Allow to dry overnight (Min 8 hours to Max 24 hours).
- Sand floor with 150-180 grade sandpaper or screenback to remove all nibs, fluff and fur. Allow to dry overnight. Vacuum off all dust.
- Apply a second coat of TITAN MC Gloss. Allow to dry (Min 8 hours to Max 24 hours).
- Sand with 150-180 grade sandpaper on a flexible base pad, ensure floor is uniformly dull with no sanding scratches or "gloss spots". Vacuum thoroughly.
- Apply the topcoat of TITAN MC Gloss or one of the premium DURAPOL[®] coatings.

Recoating Timber, Parquetry and Cork Floors

Preparing the floor to a professional standard is essential for achieving the best results.

- Mix 1 part AQUACARE 4430 Floor Clean & Degreaser with 10 parts warm water and damp mop floor to remove grease and other contaminants. Refer to AQUACARE 4430 Floor Clean & Degreaser label & data sheet for full directions.
- Damp mop floor with warm water with half a cup of methylated spirits per household hold bucket, to remove residual AQUACARE 4430 Floor Clean & Degreaser.
- Sand floor with 120 - 150 grade sandpaper or screenback on a flexible pad to ensure the floor is uniformly dull and smooth with no sanding scratches, nibs or fur. Vacuum thoroughly. Take care to avoid scratching the surface.
- Apply a coat of TITAN MC Gloss. Allow to dry.
- Optionally apply a second coat of TITAN MC Gloss after sanding floor.

Maintenance

Caring for your New Floor

- After overnight dry, the floor may be walked on with socks.
- After 24 hours drying, the surface may be subjected to light foot traffic. Avoid high heeled shoes during this period and **avoid stiletto heels at ALL times.**
- If using a DURAPOL, CRYSTAPOL or POLYTHANE polyurethane or NATUROIL oil coating it will take 5-21 days to fully cure, extra care must be taken during this time to protect the coating.
- Avoid dragging furniture over the floor at ALL times as this may mark or scratch the surface.
- Use protective pads on the bottom of all furniture legs.

Ongoing Care

- Dirt, sand and grit are materials that can easily damage a coated floor. Grit on the soles of shoes can have the same effect as sandpaper: to avoid this place mats at entry doors and in heavy traffic areas to remove the dirt and grit from shoes and reduce abrasion on the surface.
- The floor should be washed regularly with AQUACARE® 8440 Floor Clean and water in accordance with all directions on the label and data sheet. Avoid abrasive cleansers.
- The floor can be maintained with AQUACARE® Revive 4400 Gloss or 4412 Satin.
- Note: floors maintained with AQUACARE® Revive 4400 Gloss or 4412 Satin must be thoroughly stripped with AQUACARE® 4430 Floor Clean & Degreaser prior to re-coating.

Warning: All coatings provide protection for the timber or substrate. However no coating is indestructible and all coatings will mark or scratch depending upon what comes into contact with the dry coating. Sharp objects including sand and grit **will** scratch the surface of any coated floor regardless of coating type. In high traffic commercial environments such as Hair Dressing Salons, Night Clubs or Taverns several factors need to be considered when choosing the coating system. The amount of traffic, moisture, alcohol and chemicals likely to come into contact with the floor will affect the performance of the coating. A thorough cleaning and maintenance program must be implemented after the coating system has thoroughly dried to help to maintain the coating.

Warnings

! **Follow Directions:** Carefully read the contents of this Data Sheet and the associated Material Safety Data Sheet (MSDS). Please do not apply this product unless:

- You have a MSDS in your possession,
- You fully understand these important documents and;
- You are prepared to follow all directions.

! **Not Recommended:** This product is not recommended for the following applications:

- Exterior exposure
- Wet areas
- Non timber related substrates
- Spray equipment (May be sprayed if the correct safety equipment is worn - check MSDS for details).

! **Damage caused by sharp objects:** Coatings can be damaged by sharp objects, due care should be taken in high traffic environments.

! **High Humidity and Moisture In-Service Environments:** All wood will swell and discolour if allowed to come into contact with water vapour. The protection provided by a coating is dependent on the moisture transmission of the coating and on the thickness of the dry coating film applied. Coated sharp edges are usually the most vulnerable to damage either from the coating being removed or by inadequate film builds in high wear / traffic areas. Special care during sanding and coating should always be given to sharp edges as coatings do not build as well onto them, resulting in reduced protection in high moisture environments.

! **Damp Wood:** Do not apply coatings over damp timber (moisture content greater than 15%) or allow the wet coating to be exposed to water or dew during the first hour of drying or blooming (whitening) may occur.

! **High Humidity at Time of Application:** Application of coatings at high humidity will:

- Speed up the drying process and reduce the pot life of polyurethane coatings.
- Increase the risk of blooming (whitening).
- Blooming may occur if the coating is applied over damp wood or exposed to water or dew during the first hour of drying.

! **Cold Temperature:** Application of any coating at low temperatures will reduce the general in-service performance of the coating due to reduced cross linking of the coating. Application below 15°C is not recommended.

! **Curing:** Complete curing of the coating will take up to 10 days, dependant on the weather, during this time floors should not be walked on with street shoes. Care should be taken to avoid dragging furniture over the surface; use protective pads on furniture legs. To extend the life of the floor, mats should be used in doorways to remove dirt and grit from feet. Timber, cork and parquetry are relatively soft materials and permanent impressions may be left in the surface by stiletto heels or sharp furniture, even when coated with a polyurethane finish.

! **Temperature Extremes:** Application of any polyurethane coating at low temperatures (below 10°C) and high temperatures (above 35°C) will reduce the general in-service performance of the coating due to inferior cross linking of the coating. Application below 10°C or above 35°C is not recommended.

! **Inter-coat Adhesion:** To ensure sound inter-coat adhesion, thoroughly sand between coats. To reduce the potential for adhesion failure in the field, Mirotone strongly recommends it's customers carry out regular and appropriate quality control testing of their production output.

! **Maintenance:** Floors must be swept frequently and washed with AQUACARE 8440 Floor Clean Concentrate (Caution: Floors will be slippery when wet). To avoid having to resand the floor back to bare timber or cork the surface must be re-coated before it has worn through.

! **Temperature & Sunlight:** Clear coatings do not permanently protect wood from the ageing/discolouration effects of temperature and sunlight. Even when UV absorbers are present in a coating they will sacrificially break down over time and eventually no longer help to protect the substrate.

! **Timber Failure:** Over thinning of this product on the first coat may contribute to "edge bonding or glueing". Users must satisfy themselves that the timber is properly acclimatised and has reached an equilibrium moisture content suitable for the planned inservice environment before coating the floor.

Health & Safety

Refer to Material Safety Data Sheet (MSDS).

Ensure that all Personnel using this product have read and understood this data sheet and the associated MSDS and packaging label before using this product.

Engineering Controls: Avoid inhalation of vapour or sanding dust by maintaining adequate ventilation. Avoid pockets of vapour. This is normally achieved by applying the coating system in a well ventilated area. If inhalation risk exists the operator must wear a respirator. Refer to MSDS for recommended respirator.

Personal Protection: Contact with any chemical should be avoided. Avoid contact with skin and eyes, and avoid breathing the vapour. Wear suitable protective clothing including rubber or PVC gloves and safety goggles. When using, do not eat nor smoke. Take off immediately all contaminated clothing.

Mirotone/Polycure Accreditations

Quality System: Mirotone is certified to AS/NZS ISO 9001:2008 Quality management systems.

Mixed System Policy

A Mixed System is:

Where any coating or additive manufactured by another coating manufacturer is applied under, between, in, or on top of, coatings manufactured by Mirotone. [Additives may include thinners, retarding solvents, hardeners, flow additives, stains or catalysts]; or

Where products manufactured or supplied by Mirotone are used in a manner not approved or recommended by Mirotone on its labels or Data Sheets.

Policy: Mirotone will not recognise any warranty claim from customers or third parties if any Mirotone product has been used in a Mixed System with other manufacturers' products or additives. Mirotone can only warrant the quality of its own range of coatings when used in strict accordance with the recommended coating systems thinners and additives stated on Mirotone's labels and Data Sheets.

Limitation of Liability

This Data Sheet is based on information in Mirotone's possession at the "Date of Issue" above. Later experience may lead to amendments. Users should check with Mirotone to ensure that this Data Sheet is still current.

The information contained in this Data Sheet is based on data appraised in our Laboratories and on our own research, and that of others whose work we believe is reliable. Due to possible differences between controlled laboratory test conditions and methods, and actual application conditions and methods, coupled with possible differences in interpretation of results, the user of this product must satisfy himself that the end result obtainable under his particular application conditions meets his requirements. Special attention is directed to the problem of chemical compatibility, as Mirotone can control only the quality and formulation of its own materials. Mirotone has no control over quality, formulation or consistency of other manufacturers' products or the substrate to which its product is applied. Therefore Mirotone supplies its products only on condition that the consumer himself is satisfied as to the performance of the product in meeting his particular requirements.

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