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Data Sheet

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AQUAPRO® 8270 Advance 2K Water Based Floor Finish



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.

Environmental Health & Safety



- Water Based
- Low Odour
- Low VOC
- Formaldehyde Free
- Aromatic Hydrocarbon Free
- NMP Free
- APE (Alkyl Phenol Ethoxylate) Free

Refer to Product Compliance table below for compliance with various standards
 VOC = Volatile Organic Content
 APE or APEO = Alkylphenol Ethoxylate
 NMP = N-Methylpyrrolidone

Product Description

AQUAPRO 8270 Advance 2K is a high performance, two pack, water based floor finish recommended for application to interior parquetry, timber, particleboard and cork flooring. AQUAPRO 8270 Advance 2K has exceptional abrasion resistance and excellent chemical and black heel mark resistance (BHMR). Highly suitable for commercial and high traffic environments.

AQUAPRO 8270 Advance 2K is easy to apply and flows and levels well with low risk of lap marking. This environmentally friendly coating has very low VOC (solvent) content and is safer for contractor/applicators and building occupants.

AQUAPRO 8270 Advance 2K is available in full gloss, semi gloss, satin and matt and is recommended for application over AQUAPRO 8020 Water Based Sealer.

For interior use only.

Features & Benefits

Excellent Abrasion Resistance:	AQUAPRO 8270 Advance 2K exhibits outstanding abrasion resistance making it the ideal product for high traffic and commercial environments.
Excellent Chemical Resistance:	AQUAPRO 8270 Advance 2K displays excellent resistance to a range of common household and industrial chemicals including nail polish remover, alcohol, mineral turps, beetroot, coffee, household bleach and machine oil.
Easy to Apply:	Excellent flow and levelling with good bubble release and resistant to lap marking, resulting in a smooth professional finish.
Water Based:	Non-flammable. Low Odour. More pleasant and safer environment for contractors/applicators and home or business owners.
Very Low VOC:	Low VOC (solvent content) less than 75 grams per litre Part A only and less than 90 grams per litres Part A + B mixed. Complies with Green Building Council Australia: Green Star - Office Design v3 & Office As Built v3, Table IEQ-13.1; Maximum TVOC Content Limits for Paints, Varnishes and Protective Coatings (Maximum limit for "One and two pack performance coatings for floors *EU Directive" - 140 g/L).

Fast Drying:	Floor can be coated in one day, which increases speed for applicators and minimises disruption for building occupants.
Non Yellowing:	Ideal for application over blond, pale coloured timbers and lime washed floors.
Versatility:	AQUAPRO 8270 Advance 2K is available in a full range of gloss levels (Gloss, Semi Gloss, Satin & Matt) and is recommended for application over AQUAPRO 8020 Sealer.
Alkylphenol Ethoxylate (APE) Free:	APEs have been banned in many European countries. APEs are very toxic to aquatic organisms and may cause long-term adverse effects to the aquatic environment. APEs are relatively slow to biodegrade and they breakdown to form toxic intermediates that are generally more toxic than the original compounds. Research has confirmed in a number of animal studies that APEs are oestrogenic (i.e. mimic the activity of female sex hormones).
NMP Free:	NMP has been identified a reproductive toxicant, first by California in 2001 and then by the European Commission in 2003. NMP is rapidly absorbed through the skin and is irritating to eyes and skin.

Typical Applications

- Interior parquetry, timber, particleboard and cork flooring
- Recoating pre-finished engineered flooring**
- Not suitable for external application or wet areas e.g. bathrooms or swimming pools surrounds

Caution: The floor will be slippery when wet.

** Prior to recoating pre-finished engineered flooring, always prepare a test area to check adhesion.

Product Compliance

Volatile Organic Compounds (VOC) Level

The VOC content of AQUAPRO 8270 Advance 2K Water Based Floor Finish (calculated in accordance with APAS Document D181) complies with the following standards:

- **Green Building Council Australia:** Green Star - Office Design v3 & Office As Built v3, Table IEQ-13.1; Maximum TVOC Content Limits for Paints, Varnishes and Protective Coatings (Maximum limit for "One and two pack performance coatings for floors *EU Directive" - 140 g/L).
- **Australian Paint Approval Scheme (APAS):** APAS Document D181 "Volatile Organic Compounds (VOC) Limits", APAS Specification 0114 "One pack interior varnish (general purpose) 500 g/L.

Note: The criteria for VOC content of paint in Green Star IEQ-13 "Volatile Organic Compounds" refers only to paint applied on site (e.g. excludes paint applied at a factory).

Childrens Toys (Heavy Metal Content)

Mirotone's "Chemicals of Concern Policy" requires that all of its wood coatings comply with the following standards that specify stringent limits on the permitted amount of toxic heavy metals:

- **AS/NZS ISO 8124.3:2003 (Childrens Toy Safety Requirements)**
- **BS/EN 71-3:1995 (Safety of Toys) Part 3. Specification for migration of certain elements.**

Product Approvals

AS/NZS 4586:2004: Slip resistance classification of new pedestrian surface materials

AQUAPRO® 8270 Advance 2K 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 on request.

Product Properties

Colour	Milky liquid, dries clear.
Gloss Level	Full Gloss, Semi Gloss, Satin & Matt
Abrasion Resistance	Excellent
Solvent Resistance	Excellent
Sandability	Good
Build	Very Good
Water Resistance	Excellent

Hardness	Excellent after full cure	
Levelling & Flow	Excellent	
Application Methods		
<p>A 6mm or 10mm nap roller cover or waterbased applicator can be used to coat the bulk of the floor area. Excellent results have been achieved using Dacron/Micro Fibre roller covers.</p> <p>Note: When applying AQUAPRO 8270/10 Advance 2K Matt, a 6mm nap roller will provide the best finish (uniform even appearance).</p> <p>A good quality brush must be used to cut in around skirting boards and edges.</p> <p>Note: Mix AQUAPRO 8270 Advance 2K (Part A Base) thoroughly with AQUAPRO 8770 Part B Hardener before applying.</p>		
Mixing Ratio		
<p>Mixing ratio is 10A:1B by volume</p> <p>Add 1 part AQUAPRO 8770 Part B Hardener to 10 parts AQUAPRO 8270 Part A by volume. Standard pack size volumes and mixing ratios are per the table below:</p>		
AQUAPRO 8270 Advance 2K (Part A Base)	AQUAPRO 8770 Part B Hardener	
4.5 litre container	450 mls	
9 litre container	900 mls	
<ul style="list-style-type: none"> • Only add AQUAPRO 8770 Part B to the amount of AQUAPRO 8270 Advance 2K that is immediately required for the job at hand. • Do NOT add AQUAPRO 8270 Advance 2K mixed with Part B Hardener back into the original container. 		
Thinning (Additives)		
<p>Thinning is not normally required. If thinning is required, mix Part A and B <u>before</u> thinning 5-10% with water.</p> <p>In very hot environments (i.e. high ambient room or floor temperature), AQUAPRO 1300 Wet Edge Extender may be added at a rate of 5-10% to slow down the drying time and improve flow and levelling. Stir AQUAPRO 8270 Advance 2K whilst adding AQUAPRO 1300 Wet Edge Extender</p>		
Approximate Drying Times @ 20°C		
Recoat	3-4 hours	
Resume In-Service Use	Walk in Socks	4-6 hours
	Light Traffic	Overnight
	Normal Use	24 hours
	Final Cure	One week
<p>The following conditions will result in slower drying times.</p> <ul style="list-style-type: none"> • High humidity and wet damp environments • Cold temperature • Low air movement • High applied wet film thickness 		
Shelf Life		
<p>AQUAPRO 8270 Advance 2K has a shelf life of 12 months when stored in sealed containers below 25°C. See product label for Use-By date.</p> <p>AQUAPRO 8770 Advance 2K Part B Hardener has a shelf life of 6 months when stored in sealed containers below 25°C. See product label for Use-By date.</p>		
Coverage (theoretical)		

Subsequent Coats - 15 m² per litre

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

Packaging

Product	Pack Size	Net Contents
AQUAPRO 8270 Advance 2K Water Based Floor Finish	5 Litre	4.5 Litre
	10 Litre	9 Litre
AQUAPRO 8770 Advance 2K Part B Hardener	500ml	450ml

Equipment Clean Up

Use water to clean rollers and brushes.

Application System

Coating Uncoated Timber, Parquetry and Cork

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.
- **Sealer Coat:** Apply a liberal first coat of FASTASEAL 3535 or 3528 Clear Sealer or AQUAPRO 8020 Sealer by brush around the edges and using a 6mm or 10 mm roller cover for the broad floor area. Applying AQUAPRO 8020 Sealer will provide a higher build, easier to sand basecoat than applying AQUAPRO 8270 Advance 2K as its own sealer. Polycure recommends that AQUAPRO 8270 Advance 2K is applied over one of the above recommended sealers to reduce the risk of picture framing on some timbers.

To minimise the risk of tannin bleed, FASTASEAL 3535 Clear Sealer is highly recommended as the first coat on bare wood as a single pack or two pack application. For best tannin blocking performance and adhesion, apply FASTASEAL 3535 as a two pack sealer mixed with FASTASEAL 3535 Part B Hardener 10A:1B by volume.

When coating new cork use FASTASEAL 3535 Clear Sealer. For best results apply as a two pack sealer mixed 10A:1B by volume with FASTASEAL 3535 Part B Hardener.

Allow to dry (refer to relevant product data sheet for dry times).

- Sand floor with 180 grit sandpaper or screenback or maroon pad to remove all nibs, fluff and fur. Vacuum off all dust.
- **First Topcoat:** Apply AQUAPRO 8270 Advance 2K mixed 10A:1B by volume with AQUAPRO 8770 Advance 2K Part B Hardener in the gloss level of your choice. Allow to dry for up to 2-3 hours minimum at 25°C.
- Sand floor with 180-220 grit sandpaper or screenback or maroon pad to remove all nibs, fluff and fur. Vacuum off all dust.
- **Final Topcoat:** Apply the final coat of AQUAPRO 8270 Advance 2K mixed 10A:1B by volume with AQUAPRO 8770 Advance 2K Part B Hardener in the gloss level of your choice.

Recoating Timber, Parquetry and Cork Floors

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

- Mix 1 part AQUACARE 8430 Floor Clean & Degreaser with 10 parts warm water and damp mop floor to remove grease and other contaminants. Refer to AQUACARE 8430 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 8430 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 AQUAPRO 8270 Advance 2K mixed 10A:1B by volume with AQUAPRO 8770 Advance 2K Part B Hardener by brush around the edges and using a 10 mm roller cover for the broad floor area.
- Allow AQUAPRO 8270 Advance 2K to dry for a minimum of 2-3 hours.
- If a second coat is required, sand floor with 180-220 grit sandpaper or screenback or maroon pad to remove all nibs, fluff and fur. Vacuum off all dust.
- Apply final coat of AQUAPRO 8270 Advance 2K mixed 10A:1B by volume with AQUAPRO 8770 Advance 2K Part B Hardener in the gloss level of your choice.

Recoating UV Coated Solid Wood & Engineered Flooring

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

- Mix 1 part AQUACARE 8430 Floor Clean & Degreaser with 10 parts warm water and damp mop floor to remove grease and other contaminants. Refer to AQUACARE 8430 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 8430 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.
- Mix FASTASEAL 3535 10A:1B by volume with FASTASEAL 3535 Part B. Failure to mix FASTASEAL 3535 with the Part B hardener will result in adhesion failure.
- Apply a coat of FASTASEAL 3535 by brush around the edges and using a 6 mm mohair cover for the broad floor area.
- Allow FASTASEAL 3535 to dry for a minimum of 2 hours. For best results leave to dry overnight before recoating. To ensure sound intercoat adhesion to the substrate recoat FASTASEAL 3535 within 24 hours.
- DO NOT sand FASTASEAL 3535 Recoat Primer.
- Apply further coats of AQUAPRO 8270 Advance 2K mixed 10A:1B by volume with AQUAPRO 8770 Advance 2K Part B Hardener per previous section.

Application Recommendations

- Only pour sufficient product to complete the job. Replace the lid immediately.
- AQUAPRO 8270 Advance 2K dries quickly. It is therefore important to work quickly. Applicators should not brush areas too far ahead of the roller or applicator bar at skirtings or edges so that a wet edge is maintained at all times. This will avoid a noticeable darker line (picture frame) in the finished floor around skirtings and floor edges.
- An even application is essential. Uneven build of AQUAPRO 8270 Advance 2K may cause different wetting of the timber and consequently a different colour in higher build areas.
- Whilst working quickly is important, the product should not be overworked.
- For best results it is recommended that AQUAPRO 8270 Advance 2K is applied when ambient temperatures are between 10°C and 35°C.
- AQUAPRO 8270 Advance 2K can be "invisibly mended". This unique formulation can be touched up in the middle of a floor, if required, without highlighting the repaired area.
- Water based coatings will not produce the same colour on the timber as solvent based coatings. Contractors and Specifiers should be aware of this and submit a sample to their customer for approval, before application.

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 Concentrate and water in accordance with all directions on the label and data sheet. Avoid abrasive cleansers.
- The floor can be maintained with AQUACARE® Revive 8400 Gloss or 8400 Satin.
- Note: floors maintained with AQUACARE® Revive 8400 Gloss or 8400 Satin must be thoroughly stripped with AQUACARE® 8430 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).


 **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.


 **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 two pack polyurethane coatings at low temperatures (below 10°C) will reduce the general in-service performance of the coating due to inferior cross linking of the coating. Application below 10°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 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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