Makers of Fine Paint Since 1962

ISSUED: 16 April 2014

768 Vitraform AQ

USE	THINNER/CLEAN	APPLICATION	RECOAT	HAZARD
	 Water		 4 Hrs	ISOCYANATES

HIGH PERFORMANCE PAINTS FORMINEX®

768 Vitraform AQ is an innovative new water based non yellowing, flexible, 2-Part clear fluro-acrylic coating. Originally formulated as an anti-graffiti coating, its excellent resistance to abrasion, chemicals, solvents and oils also makes it suitable for a wide range of other applications.

USES: As it is water based it can be used over a much wider variety of substrates than solvent based 2 Part coatings, is much lower in odour and much more environmentally friendly. 768 Vitraform AQ dries to a smooth, easy to clean finish and is heat stable to 250°C. 768 Vitraform AQ can also be used with 643 Ceramaglas for superior adhesion over difficult to paint surfaces.

768 Vitraform AQ can be used as a clear gloss coat in many ways:-

As a graffiti resistant barrier over painted signs, murals and vinyl cut lettering.
As a clear coating on interior and exterior[1] timber.
On Vinyl and Lino Floors
As a clear coat over 677 Supergloss
Decoupage where an extremely tough, non yellowing finish is required

1 - for exterior timber we recommend use of 768 Vitraform AQ tinted to a transparent colour

COLOUR: Clear (water white), non-yellowing. A range of transparent colours are also available and are recommended for exterior use on timber.

SURFACE PREPARATION: Surfaces must be clean, wax and grease free and dry.

PREVIOUSLY PAINTED SURFACES: Whilst we are quietly confident Forminex Vitraform AQ will work over most surfaces and most existing paints it would be foolish to assume it will work over ALL paints. For this reason it is essential to carry out a compatibility test before starting to paint the compete job. This is done by an application of two coats over a small, discrete test area first (as per the directions below).

COATING OVER AGED VITRAFORM AQ: As 768 Vitraform AQ is extremely tough, chemical and abrasion resistant extra care must be taken when preparing it for recoating. Abrade the surface thoroughly with 320-400 wet & dry paper and then apply 1 wipe-coat 643 Ceramaglass Leave 1 hour before applying 2 coats of 768 Vitraform AQ following re-coating instructions.

COATING OVER FORMINEX SUPERGLOSS: If possible lightly abrade surface with 320-400 wet & dry paper. If it is not possible to abrade the surface (for example if the surface is textured or has a design painted on it) apply 1 wipe-coat 643 Ceramaglass. Leave 1 hour before applying 2 coats of 768 Vitraform AQ following re-coating instructions.

COATING OVER OTHER 2 PART Coatings: Whilst it is unlikely there will be a problem follow this procedure on a small, discrete area first as a trial. If possible lightly abrade surface with 320-400 wet & dry paper. If it is not possible to abrade the surface (for example if the surface is textured or has a design painted on it) apply 1 wipe-coat 643 Ceramaglass. Leave 1 hour before applying 2 coats of 768 Vitraform AQ following re-coating instructions.

COATING OVER SINGLE PART COATINGS: As 768 Vitraform AQ is water based it is far less likely to interact badly with previous coatings. We do however recommend test painting a small, discrete area first. As for 2 Part coatings above, if possible lightly abrade surface with 320-400 wet & dry paper. If it is not possible to abrade the surface (for example if the surface is textured or has a design painted on it) apply 1 wipe-coat 643 Ceramaglass. Leave 1 hour before applying 2 coats of 768 Vitraform AQ following re-coating instructions.

Caution: The prior use of water based house paints and/or the presence spray cleaner/polish residue may cause surface defects to occur with 768 Vitraform AQ. such as “cissing”, wrinkling or “fish eyes”. If this occurs please contact us for advice.

TOPLINE PAINT PTY LTD **33 ALDERSHOT ROAD, LONSDALE, SOUTH AUSTRALIA 5160.**

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PAINTING TIMBER: Sand timber smooth and vacuum or wipe with Tac rags to remove all dust. If the timber is subject to exposure to the weather (outside) or moisture (inside) it should be first treated with 692 Deeptreat AQ.

Apply a minimum of 2 coats of 768 Vitraform AQ 2 for interior use and 3-4 coats for exterior exposure. As noted elsewhere it is not necessary to sand between coats provided coats are applied within 24 hour intervals. However, sanding may be needed when painting timber to eliminate raised grain/fibre appearing in the coats.

Forminex Vitraform AQ must be tinted to a transparent colour for the painting of exterior timber to ensure product life.

PAINTING FIBREGLASS: Lightly abrade surface to assist adhesion. Ensure all traces of waxes or polishes are thoroughly removed. Apply 1 wipe-coat 643 Ceramaglass. Leave 1 hour before applying 1 to 2 coats 768 Vitraform AQ following re-coating instructions.

PAINTING ALUMINIUM: De-grease Apply 1 wipe-coat 643 Ceramaglass. Leave 1 hour before applying 1 to 2 coats 768 Vitraform AQ following re-coating instructions.

PAINTING CONCETE (Flooring): Concrete floors must be free from pooled water and must not be wet. The concrete must be thoroughly clean and oil free. 684 Super Wash may be used to aid removal of oil and grease. Then mix 1L Hydrochloric Acid into 9L water. Scrub onto surface with a 'deck scrub' scrubbing brush or stiff acid resistant broom and rinse off with clean water. Do not allow acid to dry on the surface before rinsing. When acid etching concrete ensure you are wearing the correct protective clothing, Rubber Boots, Rubber Gloves and goggles. It is also a good idea to be wearing a long sleeved shirt and trousers. Apply solution of Acid Neutraliser (1kg into 10L fresh water) to floor with a 'deck scrub' scrubbing brush or stiff broom and rinse. Allow to dry. For surfaces with high absorption or applications in a more aggressive environment where greater film build is required then 738 Vitraform AQ can be thinned 10% with water and used as a sealer coat by applying at 12-14m²/lt.

We do not recommend the use of 768 Vitraform AQ over 130 Water Based Epoxy Floor Coating when used in flooring situations particularly where moisture may be present in the substrate.

Non-Slip or Anti Slip Finishes for Flooring: Flooring surfaces painted in 768 Vitraform AQ are generally not inherently slippery although they can become slippery when wet or the surface is contaminated with oil, grease or dirt.
Whether or not a surface is glossy or semi-gloss usually makes little difference to this, rather it is the roughness of the surface that is the factor in determining slip. 658 Add Grip Fine or Coarse can be incorporated in 768 Vitraform AQ to make the painted surface rougher and thus reduce the risk of slip. In addition, Spescoat Broadcast can be used for a very high level of slip resistance. The use of 658 Add Grip or Broadcast will make the surface much more slip resistant however it will wear more quickly and become dirtier more rapidly. Tripping hazards can also increase with the more aggressive non-slip treatments so the most aggressive finish is not always the answer.

If painting flooring in a work place or public area you may need to consider the requirements of AS4662:2004 and HB 197:1999 - An introductory guide to the slip resistance of pedestrian surface materials. You should also consider any Local Government requirements and those that your insurer may have.

PAINTING CEMENT, MASONARY, BRICK: Care should be taken with these surfaces showing signs of efflorescence or moisture seepage as these phenomena could lead to white spots forming in the coating or lifting from the substrate as blisters. Efflorescence or moisture seepage should be remedied prior to coating with 768 Vitraform AQ. The first coat of 768 Vitraform AQ should be thinned approximately 10% with water to aid penetration into the substrate. Subsequent coats may be applied un-thinned. Between 1 and 4 coats should then be applied over the sealer coat, depending on the nature of the surface, the environment and other requirements. Please discuss your exact requirements with us before deciding on the number of coats.

APPLICATION: 768 Vitraform AQ may be applied by brush, Mohair roller or by spray. Compressors must be fitted with a oil/moisture trap. 768 Vitraform AQ is suited to short or long nap rollers however the use of long nap rollers should be restricted to rougher surfaces. Currently the use of Mircofibre rollers is not recommended as they have been shown to cause inconsistent gloss levels with this product.

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An almost flawless finish can be produced by spray applying the products however it is ESSENTIAL that when spraying 768 Vitraform AQ that you ensure that you are fully aware of the risks and precautions involved in spray painting isocyanate containing coatings. 768 Vitraform AQ is water based and hence much lower in smell and solvent fumes than a conventional coating but it still contains isocyanates. We do not recommend spray application by the do-it-yourself applicator. Where possible such painting should be done in an approved spray booth. An independent air supplied full face respirator complying with "AS/NZS 1715 Selection, use and maintenance of respiratory protective devices" should be used.

PAINTING CONDITIONS: Do not apply 768 Vitraform AQ if surface or air temperature is above 30℃, below 10℃ or the relative humidity is above 80%

DRYING / RE-COATING: 1st coat dust dry in 30 minutes. Tack dry 3-4 hours (depending on temperature & atmospheric moisture). Apply second coat after 4 hr intervals. Additional coats should then be applied after overnight drying. Sanding between coats is normally only required if the coats are more than 24 hours apart or to remove defects such as runs, dust or raised timber grain. If more than 24 hours is allowed between coats then the previous coat should be well sanded to provide key, & all sanding dust removed. 768 Vitraform AQ is fully cured in 7 days provided the temperature does not fall below 10°C during that time. Cooler temperatures will extend the time to achieve full cure. All times quoted are for 25°C. Lower temperatures will extend times.

THINNING: When brushing or rolling, 768 Vitraform AQ should be applied un-thinned. Water may be added sparingly to aid penetration into absorbent substrates (up to 10%). 768 Vitraform AQ Spraying Thinner may be used for additional thinning (if required in specialised situations) or for spray application – subject to the above notes regarding spraying of this product.

CLEAN UP: Clean equipment with Water.

COVERAGE: 10 m^2/litre at 50 µm dry (100 µm wet) film thickness. Maximum permissible film thickness per coat is 100 µm dry film thickness (200 µm wet). ***CAUTION:*** Heavy film builds (ie exceeding 200 µm wet film thickness) or puddles may result in fine bubbles appearing on curing and issues with prolonged moisture sensitivity.

MIXING RATIO: Mix 4 of 768 Vitraform AQ Part A to 1 of 768 Vitraform AQ Part B by volume. Only mix sufficient material for each coat. Please measure the materials accurately using a graduated measuring cup or jug. Maximum pot life of mixed material is 4 hours at 25ºC. 768 Vitraform AQ does not thicken or go hard as the end of its pot life approaches. ***Do not use mixed material once the 4 hour pot life has passed – even if the material looks usable it WILL fail on your job***.

SPECIAL NOTES: This product dries by chemical reaction between Part A and Part B. Keep containers out of direct heat & sunlight once activated. Any unused material that has been activated for more than 4 hours may still appear to be usable; however it is almost certain to cause application and coating problems.

768 Vitraform AQ is not suitable for direct application to ferrous metals such as case iron and steel.

768 Vitraform AQ Part B contains approximately 25% butyl acetate (approx 250 gms/lt VOC). As such it must be treated as a flammable liquid. When blended with the 768 Vitraform AQ Part A the resultant mixture is not flammable. Unfortunately we have found that current fully solvent free alternatives are much more difficult to work with and generally require mechanical high sheer mixing to ensure the Part A and Part B are fully incorporated. This situation will be updated as new alternate raw materials become available.

TOXICOLOGICAL INFORMATION: While following the usual acceptable occupational hygiene precautions, no adverse effects have been encountered, or are expected with products of this class. When mixed this product contains a maximum of 60 gms/lt of VOC's – level will vary with colour.

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PRECAUTIONS:

The following information is a general guide only. Industrial users (ie where the product is being used in the workplace) are legally required to have available a Material Safety Data Sheet on this product. If you are unsure if you have an MSDS on this product please contact Topline Paint and one will be provided.

Safety Directions: *KEEP OUT OF REACH OF CHILDREN – DO NOT SWALLOW.* Breathing the vapour is harmful and may cause lung irritation. Avoid contact with skin and eyes. Wear suitable, protective clothing, eye protection and impervious gloves when mixing and using. Handling and usage of this product must be carried out under well ventilation conditions that prevent inhalation of vapours, dust or mist. Use the appropriate breathing equipment (refer to Aust Stand. 1716) when ventilation is restricted. Keep containers closed when not in use. Eliminate any source of ignition (open fires, pilot lights, furnaces, spark producing switches etc.) as this product is flammable. *DO NOT SMOKE.* Take precautionary measures against static discharges. Used clean up rags may spontaneously ignite. To avoid ignition immerse in water or store in a sealable glass container.

First Aid Instructions: If affected by inhalation, remove to fresh air. If breathing difficulty persists or occurs later, consult a doctor. If swallowed, *DO NOT INDUCE VOMITING* drink plenty of water and seek medical advice. Contact a Doctor of Poisons Information Centre (Phone 131126). If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water. If irritation occurs seek prompt medical advice. Immerse contaminated clothing in water for 24 hours and do not use until laundered. In case of eye contact, hold eyes open and flood with running water for at least 15 minutes seek medical advice.

Leaks, Spills and Disposal: To prevent ignition of fumes product shut off all ignition sources. Contain or shut off leak if safe to do so. For large leaks or spills of volatile, flammable product, use respiratory protection, protective apparel and footwear. Spills should be absorbed either with rags (small spill) or dry sand/earth (large spill). In the case of flammable product spillage, use spark free implements to place rags or absorbed material into a solvent resistant container. Cover with water for 24 hours before disposal. DO NOT pour left over product down the drain – retain it in marked sealed container for future use or disposal through chemical waste collection programs. Dried empty cans can be recycled and should be disposed of via council steel recycling facilities.

Fire: Use foam and breathing apparatus. Avoid breathing products of combustion.

Hazard: The coloured square at the top of page 1 is provided for a quick reference as to the hazard level of a product. Blue refers to coatings with low hazard (eg water based wall paints). Yellow refers to medium hazard products such as QD enamels, which contain solvents, are flammable and need respirators for vapour protection. Red refers to products with special hazards such as isocyanate cured two pack finishes

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