

## Product Info

### Coverage

**Full coverage:** Approx. 15-20m<sup>2</sup> per litre, when diluted at 1:4

**Highlight coverage:** Approx. 30-40m<sup>2</sup> per litre when diluted at 1:8

Recommended Coats: ..... 1-2

Application Temperature: ..... Above 5°C

### Application Method

Recommended application method is by pump sprayer or airless sprayer. Other application methods can be used dependant on desired finish. Do NOT use a roller.

### Physical Properties

Appearance ..... Coloured liquid

Boiling Point (°C) ..... N/A

Vapour Pressure (mm of Hg at 20°C) ..... N/A

### FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash Point ..... N/A

Flammability Units % by volume ..... N/A

Fire Extinguishing Media ..... N/A

Dangerous Goods Classification: ..... N/A

## PRODUCT DESCRIPTION

Permacolour Water Based Stain is designed to produce the aged appearance of stone or masonry, has no volatile organic compounds and is ready-to-use, requiring only water to dilute.

Water Based Stain is a penetrating, water-based stain that produces unique colour effects in finished cementitious surfaces that simulate the natural shadings and aged appearance of stone or masonry. The colour effect produced is unique to each stained surface and cannot be duplicated with other materials. Water Based Stain contains no acids or harmful chemicals and works as an alternative to typical reactive acid stains. There are no acids or harmful chemicals integrated in its design.

## SUITABILITY

Water Based Stain may be applied over any properly prepared vertical or horizontal concrete surface, cement-based overlays, some masonry surfaces, artificial rock displays, water features, themed finishes, or pre-cast concrete products.

## RECCOMENDATIONS

Samples and Mock-ups: Permacolour strongly recommends samples and/or jobsite mock-ups when using the water based stain. The product is semi translucent and will look different on every slab. Variations in cement colour, finishing techniques, and surface preparation will have an effect on the final colour outcome. The colour chart is a general guideline and should be used as such. Use jobsite mock-ups for final colour determination. Applications on overlays will typically yield stronger colours and samples should be made using the application method planned for the site installation. Coloured concrete will also have an impact on the final colour outcome. Use of samples to determine the interplay between the slab colour and the stain is recommended.

## SURFACE PREPRATION

The concrete surface must be thoroughly cleaned and profiled before using the Water Based Stain. Nothing should diminish the porosity of the host surface. Dirty or contaminated surfaces may prevent adequate penetration of Water Based Stain and limit colour results, as well as cause problems with sealer adhesion. Generally speaking the slab must exhibit a profile similar to that of 100- 120 grit sandpaper and must be absorptive to water. It is very important to properly clean and prepare concrete to ensure a successful installation. Some very dense concrete with tightly trowelled surfaces may require mechanical preparation methods to open the surface prior to applying Water Based Stain to ensure proper penetration. Surfaces requiring this type of preparation can be identified during the mock-up. Dry Water Based Stain that is easily removed (with your finger or a rag) following application to the slab indicates the material was not able to penetrate and additional preparation measures will be necessary. Water Based Stain is recommended for cured concrete. However, applications over freshly placed concrete are not uncommon. The stain is non-reactive and will not be affected by the curing process. Interaction between the colour of the concrete and the stain can change, as freshly placed concrete is typically darker than cured concrete. Slight variations can be expected in the stain colours as the concrete lightens over time.

## APPLICATION INSTRUCTIONS

Surrounding areas and foliage should be protected prior to staining. Any adjoining walls should be masked. The use of plastic sheeting for masking is appropriate, as it will not absorb and hold the stain. Wear a respirator if adequate ventilation is problematic. The use of chemical resistant gloves and chemical splash goggles is appropriate. Wear suitable protective clothing to protect skin. Application of Stain: Divide work area into manageable sections, utilizing natural break points such as walls, joints, or other features. It is important to control wet edges to minimize overlap marking during application. Do not walk on wet stain. Thoroughly mix the Water Based Stain prior to use. If you have jugs with different lot numbers, combine them and mix to ensure even coloration throughout the project. Dampen (spray or mist with a hose, no ponding water) the slab with water prior to applying the stain. Apply Water Based Stain with a plastic pump up type sprayer or an airless sprayer. Use caution to avoid track lines from the spray pattern. A circular motion with the wand is desired. Water Based Stain may be applied full strength or diluted with water to desired rate. Applying additional coats is optional. Supplementary colours may be combined at desired rates and number of coats. Customarily apply lighter colours first. In addition to spraying, some applicators employ mopping, sponging, and ragging, especially for accenting. One to two coats is generally required to achieve desired results. Additional coats may be applied to achieve special effects or highlighting. Do not over apply stain as excessive pigment will sit on the surface and cause problems with sealer adhesion. Stain that can be easily removed (with your finger or a rag) following the application to the slab indicates that the material was not able to penetrate and that additional preparation measures will be necessary. Treated surfaces should remain undisturbed until dry to the touch prior to second coat or sealing. The second or final coat of stain should then remain undisturbed until completely dry. Many different techniques can be used to achieve unique, artistic looks with the Water Based Stain. Mixing different colours together, applying "highlight" colours over other colours while they are still wet, rag rolling, sponging and other faux finishing techniques are all acceptable when using the Water Based Stain.

## COVERAGE

### Full coverage:

Approx. 15-20m<sup>2</sup> per litre when diluted at 1:4 (1 part stain : 4 parts water)

### Highlight coverage:

approx. 30-40m<sup>2</sup> per litre when diluted at 1:8 (1 part stain : 8 parts water)

## WARRANTY

Permacolour products are warranted for one year after date of purchase. Please refer to the Limited Material warranty for additional clarification. The information contained herein is true and accurate to the best knowledge of Permacolour. Since we cannot anticipate all possibilities and conditions under which this information and our products may be used, Permacolour hereby accepts no responsibility and offers no warranty in the case of results achieved by the use of our products or of the safe use and suitability of these products. Permacolour offers our products for sale subject to, and "The Customer" and all users are deemed to have accepted our Terms and Conditions of Sale. We warrant our products to be free of manufacturing defects. If any product is found to be defective and was within storage/shelf life, Permacolour will replace the product at no charge to the purchaser. Permacolour makes no other warranty with regards to our products, either expressed or implied. Whilst any information provided by ourselves, both verbally or written, is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control. As all Permacolour technical data sheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

## SEALING

Once the Water Based Stain has completely dried it needs to be sealed. Failure to seal and maintain sealer on the Water Based stain will result in premature wear and fading. Drying times will vary depending on ambient conditions. For example, exterior applications on a sunny, warm day may be ready for sealer in a couple hours. A cool basement may take as long as 24 hours. Use of fans to assist drying in interior applications is recommended. **Please ask a Permacolour technical representative for advice on which sealer is best suited to your situation.** Once sealed, protect the surface from foot traffic for 24 hours and vehicular traffic for 72 hours.

## PACKAGING

Available in 1ltr & 5ltr containers, 20ltr containers made to order.

## STORAGE & SHELF LIFE

Keep from freezing. Store in cool, dry location. Shelf life of properly stored materials is 12 - 18 months from date of manufacture in unopened original container.

## CLEAN UP

Clean tools and equipment immediately after use with clean water.

## LIMITATIONS

Variations in ready mix concrete, finishing techniques and application technique will affect final appearance. A mock-up/test area is always recommended. Water Based Stain will not hide existing concrete discoloration, blemishes, cracks or other surface problems. Patched areas will be affected differently than the original concrete. Concrete composition, porosity, age, texture, and surface characteristics will affect penetration and final colour results. Extremely dense or tight surfaces may require mechanical abrasion prior to application to ensure proper penetration. Dirty or contaminated surfaces may prevent adequate penetration of Water Based Stain and severely limit colour results. Apply in ambient and surface temperatures above 5°C and rising and lower than 32°C.

## PRECAUTIONS

Review material safety data sheet prior to product use and for additional information. Keep out of reach of children. Wear protective clothing, gloves and goggles when handling and/or applying Water based Stain. Avoid contact with skin and eyes. Flush skin and eyes with water if contact occurs. Avoid ingestion of stain. If ingestion occurs, contact a poison control centre immediately.