SOLITAIRE

INDOOR AND OUTDOOR WET LOOK SEALER

FOR CONCRETE, TERRAZZO, STONE, PAVERS AND TERRACOTTA

WATER BASED – NON YELLOWING WATER, U.V.

& CHEMICAL RESISTANT

SOLITAIRE is a new one step, super tough, water based sealer that provides maximum protection on all types of concrete, stone, terrazzo, glazed and unglazed tiles and pavers. Being U.V. stabilised, it is suitable for areas that are exposed to the elements such as entry foyers and decks, as well as factory and warehouse floors, although it may cloud in wet conditions. Its non yellowing film is tough, glossy and chemical resistant. More importantly, it dries and cures quickly to enable fast re-use.

The formulation offers a simple to use, **non toxic, odour free** application which is ideal for food processing areas where solvent based sealers cannot be used.

Summary of Advantages with SOLITAIRE

- U.V. stabilised remains crystal clear under all conditions, so it will not yellow or soften, even in full sun.
- May cloud in damp conditions, but will recover to clear original condition.
- Extremely low transfer from tyres.
- Recoats easily.
- Solvent and odour free water based formula.
- Single product application (no base coat required).
- Ultra tough and long wearing.
- Low V.O.C. content.
- Compatible with ultra high speed buffing.

Directions for Use

Ensure surface is clean and dry.

New concrete should cure for 24 days prior to coating, terrazzo 14 days.

Preparation

New Floors

1. Sweep or dust mop to remove loose debris or grit.
2. Damp mop or scrub with Neutraclean at 1 part to 80 parts water.
3. Rinse floor thoroughly with fresh water.

Existing Floors

1. Sweep floor and machine scrub floor with Crossfire or Breakaway 1 part to 20 parts water.
2. Rinse floor thoroughly with Neutro diluted 1 part to 100 parts water.

Application

Apply SOLITAIRE in thin, even coats, using a poly cotton mop or applicator on smooth surfaces or by long nap roller or brush on rough trowelled or exfoliated surfaces.

Depending on gloss level required, apply between 2-5 coats allowing approximately 30 minutes between coats. (The more coats the higher the gloss level)

Application Rates

Steel trowelled (smooth) concrete Terrazzo, Pavers and Unglazed Tiles
20 sq.mtr per 1 ltr first coat
30 sq.mtr per 1 ltr all further coats.

Wood floated or exfoliated surfaces
15 sq.mtr per 1 ltr first coat
20 sq.mtr per 1 ltr all further coats.

Maintenance

Maintain with Neutraclean or Supastar as per labels.

Recoating

For best results, floors should be patch coated or touched up in traffic areas. Simply cut back with blue pad and Neutraclean diluted 1 part Neutraclean to 20 parts water. Rinse, let dry and re-apply.

PERFORMANCE DATA (See Performance Data Sheet for more information)

The following characteristics of SOLITAIRE were determined in our laboratories and limited exterior exposure studies.

Resistance to Water Blushing

SOLITAIRE displayed excellent resistance towards water blushing in comparison to the leading commercial acrylic and styrene/acrylic emulsions. Not only did the clear films of SOLITAIRE show a minimal amount of film blushing under both ambient (25°C) and elevated (45°C) water soak temperatures, but they also completely recover to visually clear films when the water is removed.

Low Water Pick-up

SOLITAIRE also has excellent resistance properties, showing low clear film water pick-up (low water swelling).

Block Resistance/Low Coalescent Demand

SOLITAIRE gives a higher level of block resistance while the V.O.C. level is very low.

Exterior Weatherability

Based on our current exposure data, SOLITAIRE has excellent exterior weatherability resistance.

Reduced Water Vapour Permeability

SOLITAIRE helps protect the substrate from moisture due to the low water vapour permeability of SOLITAIRE. This is important in preventing efflorescence.

SOLITAIRE

Performance Data Sheet

Performance

(Properties on concrete unless otherwise indicated)

Film Clarity	Clear (may cloud temporarily in damp conditions)
Tack-Free Time (Zapon) at 25°C	~40 min. (on glass)
Cured Film Tack (Zapon) at 50°C	None (on glass)
Abrasion Resistance (ASTM D-658-44)	225 to 350 g/mil (on glass)

Stain Resistance (One Hour Exposure)

Ketchup	Excellent (no effect)
Mustard	Excellent (no effect)
"Kool-Aid"	Excellent (no effect)
Grape Juice	Excellent (no effect)
Coffee	Excellent (no effect)
Chocolate Syrup	Excellent (no effect)
Tincture of Iodine	Poor
Coal Tar	Poor

Chemical Resistance (One Hour Exposure with no Evaporation)

Used Motor Oil	Excellent (no effect)
Distilled Water	Excellent (no effect)
10% Sodium Hydroxide	Excellent (no effect)
10% Sodium Chloride	Excellent (no effect)
10% Calcium Chloride	Excellent (no effect)
3% Trisodium Phosphate	Excellent (no effect)
10% Ammonia	Excellent (no effect)
10% Hydrochloric Acid	Fair
Brake Fluid	Poor
100 proof alcohol	Poor
Gasoline	Poor

Water Blushing Resistance on Black Pigmented Concrete[2]

48 hr in Fog Box	Slight bluish blush which recovers to clear on drying

Water Blushing Resistance on Black Pigmented Concrete[2]

After 6 months	Clear when wet with no visual defects

Theoretical Non-Volatile Solids	25%
Theoretical Bulk Density	1.01 kg/litre
V.O.C.	~70 grams/litre

NOTE: Water whitening resistance will develop after 24 hours at 25°C.