

PERMASEAL®



Concrete Curing, Sealing & Dustproofing

TECHNICAL BULLETIN



MADE IN U.S.A.

PRODUCT DESCRIPTION:

ITEM NO. 3900

PERMASEAL is a clear, penetrating, 100% Acrylic water-base emulsion. It is specially formulated to cure, seal and dustproof interior and exterior concrete and masonry surfaces. **PERMASEAL** is a quick dry non-yellowing semi-gloss. It creates a long-lasting sealed surface that protects against water damage, acids, alkali, oils, stains, greases, chemical fumes, ultraviolet degradation, etc. **PERMASEAL** is a milky white liquid that dries clear.

BASIC USES:

Not recommended for industrial uses.

PERMASEAL is used to enhance the natural beauty of:

- Fresh (14 Days) and Aged Concrete
- Stones, Pavers, Porous Tiles, etc.
- Exposed aggregates
- Roof Tile Mortar
- Brick
- Stucco

PERMASEAL is ideal for warehouses, kitchens, manufacturing plants, utility buildings, medical and educational offices, etc.

PERMASEAL offers outstanding exterior and interior durability. It cures to a hard and abrasion resistant finish without looking varnished.

ADVANTAGES:

- Cures, seals, and dustproofs in a one coat application
- No solvent vapors when spraying
- Very low VOC
- Resists penetration of oil, grease and certain chemicals
- Hot tire resistant (Residential Use Only)
- Helps control efflorescence
- Helps control cracking in concrete
- Resists water blushing and standing water
- Complies with Federal and Corps of Engineers Specifications for concrete surface treatment
- USDA & FDA approved as a concrete floor sealer in inspected meat and poultry areas
- Meets ASTM C-309 Specifications
- Can be tiled or painted over
- LA County Health Department Approval

TECHNICAL DATA:

Composition	100% Acrylic Co-Polymer
Solids by Weight (ASTM D2369)	26% ±2
VOC Level	<50 g/L
Sheen	Semi Gloss/ High Gloss
Viscosity	45 Ku
Specific Gravity	1.03-1.04
Concrete Curing (ASTM C-309) Type I, Class A&B	Pass (Increased the compressive strength of concrete by 15-17%)
Moisture Loss	0.45 Kg/M2
Test Requirements	0.55Kg/M2

Meets all Federal & States Solvent Emission Standards including California Air Regulations, Board Regulations, New York and New Jersey Requirements.

AASHTO M-148, Type I & D1, Class A & B	
Abrasion Resistance (CRD-52-50)	20.90 grams, wt. loss
Adhesion to concrete (ASTM C1315)	166 psi

Resistance to UV	Excellent
Resistance to Oxidation	Excellent
Resistance to Chemicals	Excellent
Resistance to Water	Excellent
Resistance to Water Blushing (6 Months)	Excellent
Resistance to Mold & Mildew	Excellent

Chemical Resistance (ASTM D 1308) (One Hour Exposure with no evaporation):

Used Motor Oil	Excellent (no effect)
DI 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	Excellent (no effect)

Stain Resistance (One Hour Exposure):

Coffee	Excellent (no effect)
Grape Juice	Excellent (no effect)
Kool-Aid	Excellent (no effect)
Mustard	Excellent (no effect)
Ketchup	Excellent (no effect)
Chocolate Syrup	Excellent (no effect)

SURFACE PREPARATION:

The surface must be unsealed and free from all dirt, dust, and contaminants which will inhibit the penetration of **PERMASEAL** into the concrete pores. Any curing, scaling, or coating agents must be chemically or mechanically removed. If acid is used to open the pores of smooth or non-porous concrete, the surface must be flushed sufficiently with water and neutralized before applying **PERMASEAL**.

Product Qualifications	
Cal Green	Yes
SCAQMD	Yes
CARB	Yes
LEED (New Construction)	Yes
LEED (New Schools / CHPS)	Yes

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CONCRETE CURING/FINISHES 03390/03350
CONCRETE COATINGS

MONOPOLE INC.
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APPLICATION:

PERMASEAL must be applied in a small area prior to doing the job to ensure proper results and to determine the coverage and application procedures.

Apply **PERMASEAL** in a continuous film. The best results are achieved with a hand or power sprayer (0.035 tip). A roller, soft bristle broom, or squeegee may also be used. **PERMASEAL** begins to dry in approximately 30 - 60 minutes and is influenced by temperature, humidity and the porosity of the surface. Each coat must be thoroughly dry before the next is applied. Recoat time: 1-2 hours.

Use a brush or squeegee to remove any puddles and runs. Do not allow excess **PERMASEAL** to remain wet on the surface for more than 15 minutes or it will harden on the surface. Failure to remove all excess material from floor surfaces may result in an unsightly white film.

Under general conditions, one to two coats of **PERMASEAL** produces semigloss, light to medium duty surface. Repeated applications will increase the surface durability and the gloss level.
1-2 Coats.....Semigloss
3+ Coats.....Gloss
Allow 24 hours before subjecting to normal foot traffic and five days for vehicle or furniture exposure.

LIMITATIONS:

PERMASEAL will not form a water-proofing membrane and does not seal inaccessible areas. It will not bridge cracks, fill large pores or compensate for flawed construction. Exposed walls must be capped and the backside of parapet walls must be sealed, flashings must be in place and weep holes and drains installed and functioning (where applicable).

MAINTENANCE:

- Surfaces sealed with **PERMASEAL** can be kept clean by hosing off or moping with water. Harsh chemical or abrasive cleaners such as acids will deteriorate the sealer finish.
- Touch-ups: Clean the sound **PERMASEAL** and conduct another application.

PRECAUTIONS:

- Do not use the product in areas that are continually moist, or where hydrostatic pressure is present.
- Do not use glazed surface.
- Keep the material from freezing.
- Do not apply at temperatures below 40°F or above 90°F.
- Do not apply in windy conditions or if rain is expected within 24 hours.
- Do not apply over concrete that may receive concrete toppings.
- Although **PERMASEAL** is compatible with most carpet, tile, and floor covering adhesives, a test section is always required.

CLEAN-UP:

Clean tools and equipment with warm soapy water immediately before the sealer has dried.

COVERAGE: (Estimated square feet per gallon)			
	<u>Rough Finish</u>	<u>Smooth Finish</u>	<u>Troweled Finish</u>
Fresh Concrete Newly Cured	200	300	325
Bare Concrete	150	200	325
Stone, brick, tiles	100	125	200
Exposed Aggregates	125	150	200
Standard Blocks	70	90	90
Split Face Blocks	70	90	90
Stucco	90	100	100

Succeeding coats will increase the gloss and the coverage rate for each coat.

PACKAGING:

PERMASEAL is packaged in 1-gallon cans and 5-gallon pails.
3900-01: Permaseal (1G) 3900-05: Permaseal (5G)

TECHNICAL SERVICES:

Technical assistance is available by contacting the Monopole, Inc. or your distributor.

WARRANTY INFORMATION: MONOPOLE believes that the information in this publication is an accurate description of the typical characteristics and/or uses of the product or products. But it is the end users responsibility to thoroughly test the product in the specific application to determine its performance efficacy and safety. Since use of this product is beyond our control, Monopole, Inc. cannot assume any risk or liability for results obtained when not used according to our specifications and directions. Unless MONOPOLE provides a specific written statement of fitness for a particular use, MONOPOLE'S sole warranty is that the product will meet its current sales specifications. MONOPOLE specifically disclaims any other expressed or implied warranty, including the warranty of merchantability and fitness for use. The exclusive remedy and MONOPOLE's sole liability for breach of warranty is limited to a refund of the purchase price or replacement of product proven to be defective. In no event shall the seller be liable for any loss of profits or other consequential damages. Under no circumstance will MONOPOLE pay labor charges.