

TECHNICAL DATA SHEET Poly Shield

PRODUCT DESCRIPTION

PRODUCT DATA

Poly Shield has essentially zero odor. The ideal applications are hospitals, restaurants, kennels, veterinary facilities, health care facilities, and garages etc. It is a two component, extremely chemical resistant. and non-yellowing aliphatic Polyaspartic. It features high gloss, high build, and a cure time of 4 to 6 hours, and generally return to service in 24 hours. It can be installed in extremely high or low temperatures. Poly Shield is the ideal product when extremely low odor, durability and UV stable system are required.

AVAILABLE COLORS

- Clear
- · Light Gray
- · Medium Gray
- · Dark Gray
- · White
- Black

- Tan

- Beige
- · Tile Red
- Safety Red
- Safety Blue
- · Safety Green
- Safety Yellow
- Mocha

APPLICATIONS

- **Pharmaceutical**
- Food Prep/Kitchens
- Garage Floors
- Restrooms
- Manufacturing plants
 Basements
- Aisle ways
- · Clean Rooms
- Auto showrooms Locker rooms
- Schools
- Laboratories
- Kennels
- · Veterinary facilities

 - Ramps
 - · Health Care facilities
 - Loading docks
 - · Car wash facilities

ADVANTAGES

- High Gloss (just like glass) & Build Easy mixing ratio (1:1)
- 4x more abrasion resistant thanepoxy
- Non-yellowing
- Chemical, scratch, abrasion resistant
- Solvent FREE
- Cure at temperatures just above Freezing
- Does not support growth of bacteriaor fungus.

Volumetric Ratio

Solids 85%

varies on type of surface you're coating. Contact Support Coverage 35°-100°F **Application**

Temperature Thinning Not Required

5-7 min. Pot Life Working Time on Floor 15-20 min.

Cure Time 10 hrs (walking)

24 hrs(light traffic)

1 to 1

Critical Re-Coat Time NONE must screen

(After full cure surface MUST be sanded prior to next coat.)

USDA Food & Beverage Meets Req.

TYPICAL PROPERTIES

DRNDFRTV

FNUFLNII	
Appearence	Clear Liquid
Total Solids(% by weight)	85
Total Solids (% by volume)	85
Surface Tension, Dynes/cm	40
Viscosity (Brookfield LVF), cps @ 25° C	600
Density (lbs/gallon)	8.32
Specific Gravity	1.0
Flash Point (C Pensky-Martens closed cup)	<70°F
Freeze/Thaw Stability	N/A
Thermal Stability (28 days @ 52° C)	No Effect
Mechanical Stability	Good
VOC (g/l)	0
VOC (by Weight)	0
Tg (C)	66
Tensile Strength, psi	7000
Elongation	8%

PACKAGING

2 GALLON KITS

PART A 1 GAL 1 GAL PART B

1.5 GALLON KITS

PART A 0.75 GAL **PART B** 0.75 GAL

10 GALLON KITS

PART A 5 GAL **PART B** 5 GAL



TECHNICAL DATA SHEET Poly Shield

CONCRETE PREPERATION

Before coating is applied, concrete must be:

- Dry No wet areas
- Clean Contaminants removed
- Profiled Surface must be diamond ground to a CSP (Concrete
- Surface Profile) rating of "2"... Roughly the feel of 100 Grit Sandpaper. Sound All cracks and spalled areas repaired

Note: Mechanical preparation is the preferred method of preparing concrete for coating application. Shot-blasting, diamond grinding, scarifying and scab-bling are all acceptable methods.

REPAIR CRACKS

Voids, cracks and imperfections will be seen in finished coating if the concrete is not patched correctly. Joint Filler (Crack Repair) and/ or Rapid Mender to fill cracks and imperfections. After the materials are cured, diamond grind patch. If another patching materialis used, contact a resin geek technical representative for a compatible and approved alternative.

MOISTURE VAPOR EMISSIONS WARNING

All concrete floors without effective moisture vapor barrier are subject to possible moisture vapor transmission that may cause blistering and failure of the coating system. It is the applicator's responsibility to conduct calcium chloride and relative humidity probe testing to determine vapor emissions prior to applying any coating. RESIN GEEK can supply moisture remediation products MVB15 (MOISTURE VAPOR BARRIER) that are up to 15 lbs. RESIN GEEK, sales agents will not be responsible for coating failures due to undetected moisture vapor emissions

MIXING

The ratio of poly shield is 1 Part A to 1 Part B by volume. Mix for 1 full minute using a slow-speed drill, scraping the bottom and sides of the mixing container. Mix only that amount which can be spread in 30 minutes.

FILM PROPERTIES

PHYSICAL PERFORMANCE PROPERTIES OF DRY FILM All tests were conducted on 2.0 to 2.5 mil films, and air-dried for 7 days at room temperature

PROPERTY

Hardness (Pencil/Sword) Taber Abrasion (mg loss per 100 cycles, CS-17 wheel, 1000 load) Impact Resistance (Direct/Reverse) 140/140 (lbs) Crosshatch Adhesion (Untreated Cold 100%/100%

PROPERTY

Rolled Steel/Untreated Aluminium)

Oxidation Loss of Gloss

PROPERTY

Brake Fluid Transmission Fluid Coolant Power Steering Fluid Gasoline **Battery Acid** MEK Acetone Formula 409

VALUE

VALUE

2h/70

No Effect Slight

VALUE

No Effect Slight Discoloration No Effect Slight Discoloration No Effect Damaged <200 Double Rubs <200 Double Rubs <200 Double Rubs

CLEAN UP

RESIN GEEK, while in an un-reacted state, may be cleaned up with hot water and degreaser. Isopropyl alcohol or acetone may be needed once the resin begins hardening.

SPECIAL NOTE

NOTE: High Humidity will accelerate work time dramatically. Be cautious when applying on High Moisture Days.

WARNING! SLIP AND FALL PRECAUTIONS

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slipresistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps, resin geek recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards, resin geek or its sales agents will not be responsible for injury incurred in a slip and fall accident.

Handling Precautions

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin. Some individuals may be allergic to epoxy resin. Protective gloves and clothing are recommended.

WARRANTY

resin geek products are warranted for one year after date of purchase. Please refer to the Limited Material warranty for additional clarification.

