



TECHNICAL DATA SHEET – POLYSPEC® 700/710

Revised: 2/2017

DESCRIPTION

PolySpec® 700/710 is a 100% solids, highly versatile clear polymer floor coating. This durable material withstands wear from foot traffic, rubber wheels and chemical attack. It cures to form a smooth, glossy surface finish.

TYPICAL APPLICATION

CLEAR SEALER	This product is used in several systems as a clear epoxy seal coat.
MORTAR BINDER	This product is regularly used as a clear binder in decorative systems and underlayments.

PERFORMANCE DATA

COMPRESSIVE STRENGTH (ASTM C-579)	10,000 psi
TENSILE STRENGTH (ASTM C-307)	2,250 psi
FLEXURAL STRENGTH (ASTM C-580)	4,000 psi
HARDNESS, SHORE D (ASTM D-2240)	85-90
BOND STRENGTH (ASTM D-4541)	425 psi
ABRASION RESISTANCE (ASTM D-4060)	0.08 mg
VOC	0 lb/gal; 0 gm/L
VOLUME SOLIDS	100%

BENEFITS

- Seamless, monolithic application
- Long working time
- Low odor
- Easy to install and maintain

RECOMMENDED USES

- Marine deck coating
- Manufacturing facilities
- Laboratories
- Used as a component of PolySpec® TWEDE, CLAD, FLOR, and LUX systems

GENERIC DESCRIPTION:

Epoxy

STANDARD COLORS:

Clear

PACKAGING/COVERAGE:

Epoxy Coat @ 10-12 mils
700/710 1-Gallon Unit / 130-160 sq. ft

POLYSPEC® 700/710
CLEAR EPOXY FLOOR COATING

STORAGE & INSTALLATION

STORAGE ENVIRONMENT	Dry area, 65-80°F
APPLICATION TEMPERATURE, AMBIENT	50-95°F
APPLICATION TEMPERATURE, SUBSTRATE	Minimum 5°F above dew point
SHELF LIFE	12 month
POT LIFE, @ 77°F	35 minutes
FOOT TRAFFIC @ 77°F	10-12 hours
FULL SERVICE @ 77°F	24 hours

Material cures more slowly at cooler temperatures, and working time will be substantially reduced at higher temperatures. In hot weather, material should be cooled to 65°F to 80°F prior to mixing and application to improve workability and avoid shortened pot life. The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.

CONSIDERATIONS & LIMITATIONS

1. This product is not designed for exterior use, immersion, or any use where moisture can reach the underside of the flooring.
2. This product is not designed for vehicular traffic.
3. Do not use partial units. Prolonged exposure of product in containers to air may cause loss of clarity.
4. Do not apply to wet or damp substrates.
5. Do not use on concrete floors with membranes or sealers unless properly removed.
6. Do not apply where ambient operating temperatures exceed 150°F or where application temperatures are below 40°F or above 95°F.
7. Floors should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.
8. Do not thin with solvents unless advised to do so by ITW Engineered Polymers.
9. Prepare substrate according to "Surface Preparation" portion of this document.
10. Refer to PolySpec® 700/710 Application Instructions Document for official Application Procedures.
11. Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Material Safety Data Sheet for detailed safety precautions.
12. For industrial/commercial use. Installation by trained personnel only.

SURFACE PREPARATION

STEEL: For immersion service, "White Metal" abrasive blast with an anchor profile of 2–4 mils in accordance with Steel Structures Painting Council Specification SP-5-63 or NACE No. 1 is required. For splash and spillage exposure, "Near White" SP-10-63 or NACE No. 2 is required.

STEEL: For steel surfaces, a "Near White Metal" ultra high-pressure wash or abrasive blast with anchor profile of 2–4 mils in accordance with Steel Structures Painting Council Specification SP-10 or NACE No. 2 is required.

Refer to PolySpec Surface Preparation Guidelines for more details.

INSTALLATION STEPS

1. Prepare surface according to surface preparation guidelines.
2. Premix Component A 700 Resin.
3. Add Component B 710 Curing agent to Component A 700 Resin and mix thoroughly with a drill motor, using a "Jiffy" mixer blade, for 1-2 minutes.
4. Pour the mixed material on the floor in a "puddle" or "ribbon" and spread with a trowel or squeegee. Pass a short nap, mohair roller over the wet surface to produce a uniform surface appearance.
5. Allow the material approximately 14-15 hours to cure at the recommended temperature.
6. Second Coat: The second coat can usually be applied directly over the first coat. Application of second coat should be installed no more than 48 to 72 hours after the first coat. Apply second coat of Resin/Curing agent mixture according to Step 3. We strongly recommend wiping the floor with 90% or greater anhydrous isopropyl alcohol prior to second application to remove any debris deposited between coats.
NOTE: If more than 72 hours have past before application of second coat, surface must be lightly abraded to allow for intercoat adhesion. If sanding, make sure surface is clean of sanding dust by wiping surface with 98% anhydrous isopropyl alcohol.
7. For best results, clean tools and equipment with PolySpec® All Purpose Cleaner, a nonflammable and non-evaporating cleaner. Always wear gloves when using this product.

3R:1CA / DOC 700_710 TDS 04016-0206

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