



### One Product Flooring System Industrial Application

#### PRODUCT DESCRIPTION

JONES-BLAIR®/NEOGARD® have developed a one product easy to use system for protecting concrete floors. This two component, 100% solids epoxy, is formulated as a general use epoxy to protect concrete floors against anticipated wearing due to traffic. It can be used as a primer, patching resin, base coat, topcoat... all in one.

#### IDEAL FOR

- Warehousing
- Assembly facilities
- Storage
- Garages
- Floor patching
- Maintaining floors

#### ADVANTAGES

- One product system
- Complies with VOC/VOS regulations
- Good physical and chemical resistant properties
- High gloss
- Can be combined with several aggregates for slip resistance
- Easy to clean
- Multiple colors

#### LIMITATIONS

- Not recommended for exterior applications.
- Product may fail adhesion or fish eye if oil, silicones, form release agents, or other types of contaminants are present during application.
- Do not apply if surface temperature is less than 50°F.

#### PACKAGING - 3 GAL KITS

- Colors: 70714.....Clear  
 70714-01.....White  
 70714-02.....Gray  
 70714-03.....Tan  
 70714-04.....Dark Gray  
 70714-05.....Red  
 70714-06.....Green  
 70714-11.....Light Gray  
 70714-16.....Black

Catalyst: 70715-09

Mix Ratio: 2:1 (resin:catalyst) by volume

#### DELIVERY, STORAGE & HANDLING

Materials shall be delivered in original sealed containers, clearly marked with supplier's name, brand name and type of material.

Recommended material storage temperature is 75°F (23.8°C). Handle products to avoid damage to container. Do not store for long periods in direct sunlight.

#### TECHNICAL DATA

Description	Test Method	Result
Tensile Strength	ASTM D638	2,005 psi
Elongation	ASTM D638	40%
Compressive Strength	ASTM D695	15,001 psi
Flexural Strength	ASTM D790	1,851 psi
Flexural Modulus	ASTM D790	61,917 psi
Water Resistance	ASTM D570	0.17%
MVT @ 10 Mils	ASTM E96	0.18 Perm
Taber Abrasion	ASTM D4060	61 mg/1,000(cs17)
Shore D	ASTM D2240	77
Adhesion	ASTM D4541	400 psi
Solids by Volume	Calculated	100% (mixed)
Solids by Weight	ASTM D 4209	100% (mixed)
Viscosity	ASTM D 2196	1,250 cps (mixed)
Flash Point	ASTM D 3278	>200°F
VOC	EPA method 24	<5 g/L (mixed)
Shelf Life		1 year
Pot Life @ 70°F		60 minutes
Thin Film Cure @ 75°F		8 to 9 hours
Full Cure @ 75°F		7 days
Full Chemical Resistance		7 days

#### CHEMICAL RESISTANCE

Rating Key	Chemical.....	Rating
0 - No Effect	Acetic Acid 10%.....	1
1 - Stains	Ammonia 28%.....	1
2 - Blisters	Blood.....	0
	Brake Fluid.....	1
	Ethylene Glycol.....	0
	Ketchup.....	1
	Lactic Acid 50%.....	1
	Hydrochloric Acid 37%.....	1
	Mineral Spirit.....	0
	Motor Oil.....	0
	Mustard.....	1
	Propylene Glycol.....	0
	Skydrol.....	1
	Sulfuric Acid 50%.....	1
	Urine.....	1
	Vegetable Oil.....	0
	Vinegar.....	1

## EXAMINATION

### Concrete

- Concrete must be structurally sound
- Check for contaminants
- Look for curing compounds and form release agents
- Check with JONES-BLAIR®/NEOGARD® for more information or questions
- Floor temperature must be above 50°F (10°C) and rising
- Use degreaser detergent to remove surface oil, grease and dirt. Areas where oil or other contaminants penetrate deep into the concrete may require removal by mechanical methods.

### Moisture Drive Issue

- Concrete must be dry and needs to have a minimum of 28 days cure
- Run Calcium chloride test ASTM F1869-98. Readings must not exceed 3 lbs/1000 sf/24 hrs. NOTE: Readings may vary from day to day, so the result of testing will be accurate only at the time tested.

### Patching & Cracks

- Patching concrete in remedial applications is usually required. Fill voids to adjacent level with a mix of one part 70714/70715-09 and 4 parts oven-dry silica (40-60 mesh) by volume.
- Fill non-moving cracks with a mix of one part of 70714/70715-09 with two to three parts of fumed silica by volume.
- All patching and cracks shall be done after surface preparation.

## EXECUTION

### Preparation

- Abrade/Etch concrete surface by a mechanical procedure or by using a dilution of water and Hydrochloric Acid 20° baume at a ratio of 2:1.
- Do not let acid dry on surface. Rinse thoroughly.
- Surface to achieve a profile similar to 50 grit sand paper.

### Pre-coated Concrete

- Sand thoroughly with 50 grit paper and remove all residue.
- Scrub floor with water and degreaser detergent and rinse well with water prior to application of WearTuff System.

### Mixing Instructions

- Read labels
- Follow mixing instructions
- Mix the color side of 70714 for three minutes before adding 70715-09 catalyst
- Mixing ratio is 2 parts 70714 series to 1 part 70715-09 by volume
- Mix material for three minutes
- Use a slow speed drill (600 rpm max.) and jiffy mixer

## IMPROPER MIXING AND IMPROPER MIXING RATIOS CAN RESULT IN CURING PROBLEMS

### Application & Coverage Rates

- **PRIMER** - Apply in one coat at a rate of 266 sf/gal to achieve a DFT of 6 mils. Primer should always be clear. After proper mixing, dip roller in the coating, apply and roll out excess. Apply in a uniform path trying not to overlap in excess with previous paths. After 3 or 4 paths, back roll the surface for uniform appearance and until you achieve proper thickness. Within 36 hours of application of primer, topcoat must be applied. If topcoat cannot be applied within 36 hours, lightly sand the entire surface to develop a profile. Remove imperfections and/or dust.
- **TOPCOAT** - Apply one coat of clear or color topcoat at a rate of 160 sf/gal to achieve 10 mils DFT. After proper mixing, dip roller in the topcoat, apply and roll out excess. Apply in a uniform path trying not to overlap in excess with previous paths. After 3 or 4 paths, back roll the surface for uniform appearance or to achieve proper thickness.
- **OPTIONAL COAT** - For custom color or UV stability, use Acrylithane HS2

### APPLICATION TOOLS

- Safety is first. Use protective clothing, safety glasses and post warning signs.

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