

# *EASTERN RESINS*

## CHEM SHIELD RESIN

**DESCRIPTION:**

*CHEM SHIELD RESIN* is a 100% solids, Modified novolac system designed for broadcast floors and is suitable as a binder for mortars. *CHEM SHIELD RESIN* will bond to cold damp concrete. Non-Blushing and Non-water spotting characteristics makes it ideal for applications requiring high gloss appearance.

**TYPICAL USES:**

- Most corrosive environments
- Primer for Novolac epoxy mortars
- Broadcast coating for industrial traffic
- Binder for mortars
- Excellent as a finish top coat

**FEATURES:**

- High gloss
- Convenient 2 to 1 ratio by volume
- Non-blushing & non- water spotting
- Bonds to cold damp concrete
- Self-leveling and air releasing
- Excellent pot life and fast cure

**VISCOSITY: (@72°F)**

- Part A: 1000 cps
- Part B: 300 cps
- Mixed: 650 cps

**COLORS:** light grey, standard grey, dark blue, Light blue, green, safety yellow. beige, tile red

**MIX RATIO BY VOLUME:**

2 parts A to 1 part B (by volume)

**CURE SCHEDULE:**

- Pot life @ 75°F: 26 minutes
- Tack free: 4 hours
- Foot Traffic: 7 hours
- Forklift Traffic: 9 hours
- Chemical exposure (continuous) 7 days

<b>PHYSICAL PROPERTIES:</b>		
Compressive Strength	ASTM D695	12,000 psi
Tensile Strength	ASTM D 638	4,800 psi
Elongation at Break	ASTM D-638	10 %
Abrasion Resistance		
CS-17 Wheel, 1 kg load	ASTM D4060	0.20 gm loss
Water Absorption (2 hour Boil)	ASTM D570	0.09%
Flexural Strength	ASTM D790	9,600 psi
Shore D Hardness	ASTM D2240	87
Heat Distortion Temperature	ASTM D648	129°F
Bond Strength to : Concrete		100% concrete failure
Flammability Rating:	ASTM D635	(Self Extinguishing)
Time to Self Extinguishing: (seconds)		120
Extent of burning: (Inches)		1 inch

<b>CHEMICAL RESISTANCE:</b>			
REAGENT	RATING	REAGENT	RATING
<b>ACIDS</b>		<b>ALKALIES</b>	
Acetic	1-5% 2	Ammonium Hydroxide	1-28% 2
Chromic	1-5% 2	Calcium Chloride	all 2
Citric	all 2	Calcium Hypochlorite	1-15% 2
Hydrochloric	all 2	Caustic Soda	2
Lactic	1-10% 2	Caustic Potash	2
Nitric	1-5% 2	Sodium Hydroxide	all 2
Oxalic	1-20% 2	Sodium Sulfide	1-30% 2
Phosphoric	all 2		
Sulfuric	1-75% 2		

2= intermittent immersion. 8 hours with 8 hours dry time.