

FREDA RS-1140 EPOXY BROADCAST SYSTEM

DESCRIPTION:

RS-1140 combines the toughness of epoxy and silica aggregate to provide a monolithic 40-45 mil epoxy overlayment. The RS-1140 system can be applied to existing concrete substrates that require heavy-duty protection against wear, impact, and abrasion in industrial environments. With a variety of topcoats to choose from, RS-1140 can be tailored to the customers non-slip needs.

MATERIAL SPECIFICATION: (nominal 40 mils)

- Preparation: Surface to be coated must be clean, dry and mechanically shot blasted.
- Primer: FC-1100 resin @ 125 square feet per gallon.
- Broadcast Aggregate: #25 mesh silica sand
- Sand cured aggregate base with 80 grit sandpaper, then sweep or vacuum.
- Topcoats:
 - Option 1 Texture OP Finish FC-7100 @ 100 square feet per gallon.
 - Option 2 Smooth Finish FredaFill @ 130 square feet per gallon.
 - BP-1500 @ 100 square feet per gallon.
- High performance urethane finishes may be applied to cured epoxy coatings.

USES:

RS-1140 is ideally suited for heavy duty industrial use on either new concrete that needs to be protected, or concrete that has been deteriorated by years of abuse and needs to be restored to a

GENERAL PRODUCT INFORMATION:

Packaging: 3 Gallon Kits, 5 Gallon Pails, and 50 Gallon Drums
Aggregate supplied in 50 lb. bags

Colors: All standard Freda colors

Application: Refer to the RS-1140 Application Bulletin

TECHNICAL SPECIFICATIONS:

<u>Type Test</u>	<u>Method</u>	<u>Result</u>
Compressive Strength	ASTM C-579	10,000 psi
Tensile Strength	ASTM D-638	4,500 psi
Bond Strength to Concrete	D-4541	400 psi, concrete failure
Hardness (Shore D)	ASTM D-2240	80-85
Abrasion Resistance	ASTM C-501	50 mg loss
CS 17 wheel 2000 gm. Load 1000 cycles		
V.O.C.		0 lbs. Per gallon
Cure Schedule		Light traffic: 12 hours Heavy traffic: 24 hours

FREDA RS-1140 EPOXY BROADCAST SYSTEM

SURFACE PREPARATION:

Surface must be clean, sound, dry and perfectly free of curing compounds, oil, grease and any other contaminants. A surface profile of 10-15 mils should be achieved using a mechanical shot blaster or scarification. The RS-1140 can be applied to an epoxy coating that is adhering properly, but it must be abraded and degreased before applying the coating system.

PRIMING:

Entire surface that is to be coated must receive a coat of FC-1100 epoxy binder.

- Mix Ratio: 1A:1 B (mechanically mix for 2 minutes)
- Application Method: Flat edged Squeegee apply at a spread rate of 125 sq.ft per gallon
- Cure Schedule: Minimum: 8 Hours
Maximum: 16 Hours

BINDER/AGGREGATE BROADCAST:

The following recommendation will achieve a nominal 40 mil finish using RS-1100 epoxy binder and #25 mesh silica sand.

- Mix Ratio: 1A:1B (mechanically mix for 2 minutes)
- Application Method: -3/16" notched squeegee at a spread rate 125 sq.ft. per gallon.
-Backroll using a high quality non shed roller.
-Slowly begin to broadcast silica sand into binder assuring that it falls vertically into coating. Allow silica to become saturated before proceeding to broadcast to excess. Silica spread rate should be approximately .4-.5 lb. per sq. ft. NOTE: If a 1/16" system is desired, repeat above application method.
-Allow system to cure, approximately 8-10 hours, then sweep and vacuum all excess sand.

TOPCOAT:

- Heavy non slip: Apply one coat Freda BP-1500 with a flat squeegee or spring trowel at a spread rate of 160 square feet per gallon. And broadcast # 30 aluminum oxide
- Textured OP: Apply one coat of Freda FC-7100 with a notched squeegee at a spread rate of 100 square feet per gallon, and backroll to achieve an orange peel finish.
- Smooth Finish: Apply grout coat of FredaFill with a flat squeegee at 100 square feet per gallon, do not backroll.
Apply one coat Freda BP-1500 with a notched squeegee at 100 square feet per gallon, backroll to achieve uniform finish.