SUPERIOR MANUFACTURING

TECHNICAL DATA SHEET

Direct to Metal Coating
8140

DESCRIPTION
8140 is a high solid, 2-component, chemical resistant amine adduct cured epoxy mastic primer/finish coating formulated to provide chemical resistance and superior adhesion to a variety of substrates. **8140** is designed to bond to marginally prepared steel, concrete, fiberglass and galvanized metal. Accepted for use in USDA/FDA inspected facilities.

USES
8140 can be used as a direct to metal primer or as a finish coating to provide high corrosion and chemical resistance for steel structures in marine or industrial environments. **8140** can also be used as a tank lining primer and finish coat inside tanks holding fresh or chlorinated water, waste water, gasoline, crude oil, etc.

COVERAGE
8140 is typically applied at 200 square feet per gallon per coat depending upon substrate and project requirements.

FEATURES
- Excellent adhesion even to marginally prepared steel with tight rust/sharp edges
- Manufactured in limited Standard Superior colors, but available in most Superior colors with lead time
- Cures to a tight film with low permeability
- Easy mix ratio
- Excellent abrasion resistance
- Long pot life for easy dip and roll or spray applications
- High solids
- Contains rust inhibiting Micaous Iron Oxide
- Outperforms standard DTM epoxies in resistance to chemicals and undercutting

PHYSICAL PROPERTIES

Volume mix ratio	4 to 1 (Resin to Hardener)
Viscosity (mixed)	1300-1450 CPS Typical
Solids Content (%)	82% +/- 3% (ASTM D-2697)
VOC	161 g/l (EPA method 24)
Hardness (ASTM D-2240)	70-75 (Shore D)
Application Temps	50° - 90°F
Gel Time	3-4 hours @ 75°F
Dry to Touch (recoat with similar product)	8 hours @ 75°F
Through Cure	72-96 hours @75°F
Open for Light Traffic	72 hours @ 75°F
Ready for Immersion Service	7 days @ 75°F
Shelf Life	1 year in unopened units

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PACKAGING
One-gallon units of Dark Gray C-02 typically stocked with other colors and 5-gallon units available as special orders.

LIMITATIONS & FOR BEST RESULTS
- Can be thinned with up to 20% MEK for easier spraying.
- Do not apply when Humidity exceeds 70% indoors.
- Allow each coat to dry to 'tack-free' prior to re-coat.
- When re-coating, always apply the next coat within 24 hours of completing the previous coat.
- This product is batched to order and often requires 7-10 days lead time.

PRODUCT APPLICATION
Apply by brush and roller or airless sprayer. SUPERIOR product test data is based on environmental temperatures of 75°F. Viscosity and working time are always affected by temperatures above or below that mark. When applying product always consider the ambient, surface, and product temperature at the time and place of installation.

COLOR AND TEXTURES
8140 is manufactured in White, Light Gray and Dark Gray. Most other Superior Standard Colors and some specialty colors are available at additional cost with additional lead time and minimum order quantities. Most Superior products are available in a wide range of textures using an appropriate aggregate.

CHEMICAL RESISTANCE
Always refer to Superior's chemical resistance chart for specific information on this product / system or contact Superior directly.

PRODUCT STORAGE
DO NOT allow Superior products to freeze. All Superior products should be properly stored above the floor on pallets or shelves, and in an area that has a constant minimum temperature of 50°F.

SURFACE PREPARATION
Always apply Superior products to a clean / sound substrate that is free of laitance, grease, oils, debris, and curing compounds. Concrete substrates should be cured for a minimum of 28 days prior to application of product [except as otherwise noted on the individual Product Data Sheet]. Whenever possible, remove existing coating systems completely; if complete removal is not possible dull the finish by sanding and always perform tests to determine adhesion and compatibility to the existing substrate. Rusted metal must be prepared to a minimum SSPC-SP2 profile. When applying to galvanized metal a SSPC-SP7 brush blast is recommended. Whenever possible abrasive blasting of metal substrates is preferred. Mechanical preparation by means of a shot-blasting or diamond grinding machine to a minimum CSP-2 profile is the best and recommended preparation method for concrete substrate applications. If the substrate is not properly prepared and the appropriate profile is not achieved, failure of the product to adhere to the substrate may occur.

CLEAN UP
Application tools and equipment must be cleaned immediately after use with solvent such as Xylene or MEK.

DISPOSAL

Product containers will contain product residue and must be disposed of properly. Label warnings must be observed at all times. All containers must be disposed in accordance with federal, state, and local regulations.

IMPORTANT NOTICE

Always read and acquaint yourself with Superior's Product Data Sheet, SDS [safety data sheet], and product labels for each individual product prior to mixing and prior to use. For further assistance, product questions, additional information and/or unexpected or unusual installation conditions – contact your Area Sales Representative or Superior directly for recommendations. Kit components are pre-measured for optimal performance. Catalyzation errors due to incorrect mixing in the field voids product warranty.