



**american coating technologies**  
www.amcoating.com

# Product Technical Data

## AM 1510SP Ceramic Fluid Repair

### Product Description

AM 1510SP has been engineered for areas where severe abrasion resistance with less than 24 mg loss on ASTM-D-4060 test. AM 1510SP is a ceramic infused material that is a fluid consistency product that provides outstanding long term wear characteristics. This product is used for the rebuilding of pumps, valves, heat exchangers, water boxes, pipes ECT.

### Chemical Resistance:

Acetic Acid up to 10%  
Ammonium Hydroxide 25%  
Brine Water  
Copper Sulfate  
Diesel Fuel  
Gasoline  
Hydrochloric Acid up to 30%  
Isopropyl Alcohol  
Mineral Spirits  
Potassium Hydroxide 50%  
Sodium Hydroxide 50%  
Sulfuric Acid 50%  
Sewage  
Alkalies  
Fresh and non-potable water

### Adhesion Strength:

ASTM D 4541 2,500

### Abrasion Resistance:

ASTM D4060 CS 17 Wheel 1000 Cycles 1KG  
23 MG

### Rockwell Hardness:

ASTM D 2240 80

### Compression Strength:

ASTM D 695 15,000psi

### Flexural Strength

ASTM D 790 13,000PSI

### Tensile Shear Strength:

ASTM D 1002 3,000PSI

### Color:

Dark Gray

### Container Size:

1 gallons

### Coverage per gallon (Theoretical):

160 sq. ft. @ 10 mils thickness

### Flash Point:

Greater than 250°F (121°C)

### Pull-Off Adhesion Test ASTM D 4541:

Minimum adhesion is 2550 psi

### Tabor Abrasion ASTM D 4060:

Greater than 24 mg (CS 17 Wheel Cycles:  
1KG load)

### Recommended Thickness:

2 coats @ 8-12 mils each

### Specific Gravity:

Resin: 1.48; Hardener: 1.02

### Volatile Organic Compounds (VOC):

0 grams/liter

### Weight per Gallon:

14.50 lbs

### Pot Life:

40°F (4°C)	8 hours 30 minutes
75°F (24°C)	2 hours 30 minutes
92°F (33°C)	55 minutes

### Cure Schedule @ 70°F or 21°C:

Recoat window	24 hours
Light Loading	2 days
Immersion (Aqueous) Service	3 days
Full or Chemical Service	7 days

### Service Temperature:

Dry Service	220°F (104°C)
Spill/Splash	180°F (82.2°C)
Immersion Service*	170°F (76.7°C)

\* Immersion with solvents, mineral acids, or alkalines, or if over 150°F contact factory

### Pump Specifications:

Pump Ratio	56:1 or greater
Minimum Output	5600 psi
Product Hose: Min.	
– Optimum I.D.	0.375 – 0.5 inch
Max. Length	50 feet

### Product Features and Benefits

- 100% Solids, No VOCs
- Long term wear protection
- Excellent abrasion resistance

### Note:

Do not keep the blended coating in the original container unless immediate use is planned. Otherwise, exothermic—heat created during the curing process—will considerably shorten the pot life. Pour the coating into a rolling tray or large aluminum-basting pan. Try to keep the depth of the coating in the tray below 3/8".

### Multiple Coats:

Second and subsequent coats must be applied before the previous coat has completely cross-linked. If additional coats are needed after re-coat window, brush blast before applying the next coat. Sanding or wire brushing may abrade small areas.

The same requirement applies when overlapping the seams of adjacent coating sections to create a continuous protective film. If the coating surface to be overlapped at the seam cannot be brush blasted, use a non-impact means as power brushing or sanding to create a mechanical profile.

### Safety:

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and material safety data sheets before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed.

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