

Product Description

AM 3920 is a synthetic rebuild material for metal parts and surfaces, and is machinable. It has a smooth spreadable consistency which makes it easy to apply. AM 3920 is most often used in pitted steel repair but is also well suited to rebuilding tube sheets, shafts, bearing housings, etc.

Chemical Resistance: Acetic

Acid up to 10% Ammonium Hydroxide* Aromatic & Aliphatic Solvents Black Liquor **Butyl Acetate Butyl Carbitol** Most Chlorides Hydrogen Sulfide Isopropyl Alcohol Mineral Acids Nitric Acid up to 45% Mild Organic Acids Most Phosphates Phosphoric Acid Potassium Hydroxide* Sodium Hydroxide* **Most Sulfides** Sulfuric Acid up to 80% 1,1,1-Trichloromethane **Urea Solutions** White Liquor *Ambient temperature only

Adhesion:

ASTM D 4541

Abrasion Resistance:

ASTM D4060 CS 17 WHEEL 1000 CYCLES 1 KG 45MG

2,500 PSI

80

Rockwell Hardness: ASTM D 2240

Compression Strength: ASTM D 695 17,500PSI

Flexural Strength: 13,000PSI

Tensile Shear Adhesion:

ASTM D1002 3,000PSI

Color: Dark Gray

Coverage Per Gallon (Theoretical):

12.8 sq. ft. per gallon @ 1/8" thickness packaged in 4 x 1 kg or by one gallon kits coverage rate per 1 kg is 1.24 sq ft at 1/8 " **Mix Ratio by Volume/Weight:** 3:1/5:1 (Resin:Hardener)

Flash Point:

Greater than 250°F (121°C)

Pull-Off Adhesion Test ASTM D 4541: Minimum adhesion is 2850psi

Coefficient of Thermal Expansion: (10-6/per °F) 1.1

Thermal Stability: (weight loss after 48 hours @ 300°F) 0.0003 grams

Specific Gravity: Resin: 2.12; Hardener: 1.59

Volatile Organic Compounds (VOC): 0 grams/liter

Weight Per Gallon: 13.37 lbs

Pot Life:

 40°F (4°C)
 1 Hour 20 minutes

 75°F (24°C)
 50 minutes

 92°F (33°C)
 30 minutes

Cure Schedule @ 70°F (21°C):

Recoat Window1/2-2 hoursLight Loading12 hoursImmersion (Aqueous) Service48 hoursFull or Chemical Service5 days

AM 3920 Machinable Grade

Product Features and Benefits

Product

Technical Data

- 100% Solids, No VOCs
- Excellent UV stability
- Excellent impact resistance and corrosion protection

Service Temperature:

Dry Service 490°F (255°C) Spill/Splash 293°F (145°C) Immersion Service* 194°F (90°C) * Immersion with solvents, mineral acids, or alkalines, or if over 150°F, contact factory.

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".

See reverse side for limitations of our liability and warranty. See reverse side for application instructions.

AM 3920 Instructions:

1) TOP-COATING: If the compound is to be coated, apply the coating within the re-coat window (see table below). If this is not possible, allow the compound to cure, then brushblast, wire-brush or sand to create a mechanical profile on the surface before coating.

2) JOINING ADJACENT SECTIONS: When it is necessary to join multiple sections of the compound to create a continuous protective layer over a large area, do not attempt to feather and overlap adjoining sections. If adjoining sections cannot be applied within the re-coat window (see table below), continue the full thickness of the compound up to the joint between sections. Allow the first section to cure, then create a mechanical profile, using one of the means listed above, on the edge that will be joined to the next section to ensure a satisfactory bond.

3) **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. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications.

NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANT- ABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFOR- MATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty

or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.