

206 CERAMIC HTA FLUID

206 Ceramic HTA Fluid is designed to protect equipment operating in contact with acids and highly aggressive chemicals at elevated temperatures. The coating once fully cured is capable of withstanding temperatures up to 110°C (230°F) in continuous immersion in sulfuric acid & hydrochloric acid.

Typical applications

condensate extraction pumps
return tanks, calorifiers,
distillation unit, evaporators,
heat exchangers, scrubber
units, filters, process vessels

Characteristics

Appearance

Base: Dark Grey or Light
Grey Paste

Activator: Amber Liquid

Mixed: Grey viscous Liquid

Mixing Ratio

By weight: 18:1

By volume: 7:1

Density

Base: 2.55

Activator: 0.97

Mixed: 2.35

Volume Capacity

425cc/Kg

Solids content

100%

Sag Resistance

Nil at 1000 microns

Coverage

1kg (2.2lb) of fully mixed product will give the following coverage rates –

1.415m² at 300 microns
15ft² at 12mil

1.063m² at 400 microns
11.5ft² at 16mil

0.850m² at 500 microns
9ft² at 20mil

0.708m² at 600 microns
7.5ft² at 24mil

Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.

Cure Times

The applied material should be allowed to harden for the times indicated below before being subjected to the conditions indicated:

Usable life

10°C 50 minutes

20°C 25 minutes

30°C 12.5 minutes

40°C 6 minutes

Minimum sweep blast time

10°C 32 hours

20°C 16 hours

30°C 8 hour

40°C 4 hour

Maximum overcoating time

10°C 96 hours

20°C 48 hours

30°C 24 hours

40°C 12 hours

Full Cure

10°C 6 days

20°C 3 days

30°C 1.5 days

40°C 18 hours

Storage life

5 years if unopened and stored in normal dry conditions (15-30°C)

Mechanical Properties

Abrasion Resistance

Taber CS17 Wheels/1 Kg load
28mm³ loss/1000 cycles

Adhesion

Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75 micron profile
245kg/ cm² (3480psi)

Pull off Adhesion to ASTM D4541 on abrasive blasted mild steel with 75 micron profile
348kg/ cm² (4950psi)

Compressive strength

Tested to ASTM D695
1046kg/cm² (14880psi)

Corrosion Resistance

Tested to ASTM B117
Minimum 5000 hours

Flexural Strength

Tested to ASTM D790
614kg/cm² (8710psi)

Impact Resistance

Tested to ASTM D256
32J/m

Hardness

Shore D to ASTM D2240

20°C 89

100°C 87

150°C 86

200°C 82

240°C 78

Heat Distortion

Tested to ASTM D648 at 264psi fibre stress.

20°C Cure 47°C

100°C Cure 126°C

150°C Cure 172°C

Heat Resistance

Dry heat resistance

Tested to ASTM D2485

Pass 240°C

Chemical Resistance

The product resists attack by a wide variety of inorganic acids, alkalies, salts and organic media.

For more detailed information refer to the Resimac Technical Centre for advice.

Quality

All Resimac Products are supplied under the scope of the company's fully documented quality system.

Warranty

Resimac warrants that the performance of the product supplied will conform to the typical descriptions quoted within this specification provided material is stored correctly and used according to the procedures detailed in the Technical Data Sheet for the material.

Health and safety

Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves and other recommended personal protective equipment must be worn during the mixing and application of this product. Before mixing and applying the material please ensure you have read and fully understood the detailed Material Safety Data Sheet

Legal Notice: The data contained within this Product Specification is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. Resimac accepts no liability arising out of the use of this information or the product described herein.