

## 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: 13:1  
By volume: 5.3:1

#### Density

Base: 2.55  
Activator: 1.05  
Mixed: 2.44

#### Volume Capacity

433cc/Kg

#### Solids content

100%

#### Sag Resistance

Nil at 1000 microns

#### Coverage

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

0.866m<sup>2</sup> at 500 microns  
9.32ft<sup>2</sup> at 20mil  
0.65m<sup>2</sup> at 750 microns  
7ft<sup>2</sup> at 30mil

*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 70 minutes  
20°C 35 minutes  
30°C 17 minutes  
40°C 8.5 minutes

#### Minimum overcoating

10°C 8 hours  
20°C 4 hours  
30°C 2 hour  
40°C 1 hour

#### Maximum overcoating time

10°C 16 hours  
20°C 8 hours  
30°C/ 50% or less humidity  
6 hours  
30°C/ 50% + humidity  
4 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  
28mm<sup>3</sup> loss/1000 cycles

#### Adhesion

Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75 micron profile  
245kg/ cm<sup>2</sup> (3480psi)

Pull off Adhesion to ASTM D4541 on abrasive blasted mild steel with 75 micron profile  
348kg/ cm<sup>2</sup> (4950psi)

#### Compressive strength

Tested to ASTM D695  
1046kg/cm<sup>2</sup> (14880psi)

#### Corrosion Resistance

Tested to ASTM B117  
Minimum 5000 hours

#### Flexural Strength

Tested to ASTM D790  
614kg/cm<sup>2</sup> (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.