



206 Ceramic HTA Fluid

A durable epoxy novolac coating for high temperature immersion in acidic environments. Provides long term protection against corrosion and aggressive chemicals up to 110°C (230°F).

- Resists high temperature fluid flow environments up to 110°C (230°F)
- Withstands continuous immersion in acidic conditions
- Suitable for hydrocarbon and aqueous immersion

2025 Product Sheet

Typical Applications

206 Ceramic HTA Fluid is a two component, solvent free epoxy novolac coating formulated for high temperature immersion in acidic environments. Designed to protect metal surfaces exposed to aggressive chemicals, it resists continuous immersion in sulfuric acid, hydrochloric acid, and other corrosive substances at temperatures up to 110°C (230°F).

- Condensate extraction pumps
 - Return tanks
 - Calorifiers
 - Distillation unit
- Evaporators
 - Heat exchangers
 - Scrubber units
 - Filters
 - Process vessels

Cure times

Usable Life		Min overcoating time		Max overcoating time		Full Cure	
10°C/50°F	70 mins	10°C/50°F	8 hours	10°C/50°F	16 hours	10°C/50°F	8 days
20°C/68°F	35 mins	20°C/68°F	4 hours	20°C/68°F	8 hours	20°C/68°F	3 days
30°C/86°F	17 mins	30°C/86°F	2 hours	30°C/86°F *	6 hours	30°C/86°F	1.5 days
40°C/104°F	8.5 mins	40°C/104°F	1 hours	30°C/86°F **	4 hours	40°C/104°F	18 hours

* 50% or less humidity. ** 50% + humidity

Characteristics

Appearance

Base	Dark Grey or Light Grey Paste
Activator	Amber Liquid
Mixed	Grey viscous Liquid

Solids Content

100%

Volume Capacity

433cc/kg

Sag Resistance

Nil at 1000 microns

Density

Base	2.55
Activator	1.05
Mixed	2.31

Mixing Ratio

By weight	13:1
By volume	5.3:1

Storage Life

5 years if unopened and stored in normal dry conditions, 15–30°C (59–86°F)

Coverage

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

0.866m² at 500 microns	9.32ft² at 20mil
0.65m² at 750 microns	7ft² 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.

Mechanical Properties

Abrasion Resistance

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

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)

Heat Resistance

Full immersion resistance:
Water/hydrocarbon immersion to
110°C (230°F) Pass (no blisters)
Dry heat resistance: ASTM D2485
Pass 240°C (464°F)

Impact Resistance
Dry heat resistance
ASTM D2485 Pass 240°C (464°F)

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)

Hardness

Shore D to ASTM D2240:

20°C (68°F)	89
100°C (212°F)	87
140°C (284°F)	86
200°C (392°F)	82
240°C (464°F)	78

Heat Distortion

ASTM D648 at 264psi fibre stress:

Cure 20°C (68°F)	47°C (116°F)
Cure 100°C (212°F)	126°C (258°F)
Cure 150°C (302°F)	172°C (341°F)

Details & Legal

Chemical Resistance

The product resists attack by a
wide variety of inorganic acids,
alkalis, 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 this document.

Pack Sizes

This product is available in the
following pack sizes:
1kg (2.2lb)
3kg (6.6lb)

Application Guide

A. Surface Preparation

Metallic Substrates: Abrasive blast cleaning

- 1 All oil and grease must be removed from the surface using an appropriate cleaner such as MEK.
- 2 All surfaces must be abrasive blasted to ISO 8501/4 Standard SA2.5 (SSPC SP10/ NACE 2) minimum blast profile of 75 microns (3mil) using an angular abrasive.
- 3 Once blast cleaned, the surface must be degreased and cleaned using MEK or similar type material.
- 4 All surfaces must be coated before gingering or oxidation occurs.

B. Product Preparation

Prior to mixing, please ensure the following:

- 1 The base component is at a temperature between 15–25°C (60–77°F).
- 3 The ambient & surface temperature is above 10°C (50°F).
- 3 The ambient & surface temperatures are not less than 3°C (6°F) above the dew point.

PLEASE NOTE: For salt contaminated surfaces the substrate must be pressure washed with clean water and checked for salt contamination, please refer to the surface preparation and pre-application guide for further information.

Health & 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 all information.

C. Mixing

Mix the complete unit of material (1kg/3kg):

- 1 Transfer the contents of the Activator unit into the Base container.
- 2 Using the spatula provided, mix the 2 components until a uniform material free of any streaks is achieved.
- 3 From the commencement of mixing the whole of the material should be used within 35 minutes at 20°C (68°F).

D. Application

- 1 The first coat of material should be applied at a target thickness of 500 microns (20mil), use a plastic applicator as a squeegee to apply a very thin layer of product, forcing it into the blast profile.
- 2 Special attention should be paid to detailed areas such as edges, corners and welds where brush application by stippling may be required.
- 3 Immediately after the initial application apply further material by brush or applicator to give the required film build, checking film thickness with a wet film thickness gauge.
- 4 Lay off the coating by brush to give a smooth finish.
- 5 Allow to harden for a minimum of 4 hours at 20°C (68°F) or until touch dry before applying the second coat.
- 6 The second coat of material should be applied at a target thickness of 500 microns (20mil) using a brush or applicator and once again checking film thickness with a wet film gauge before finally laying off the coating with a brush to give a smooth finish.

Quick Application Guide



Step 1

Ensure you have:

1 x base unit

1 x activator unit

1 x spatula

1 x brush with the bristles cut
to 25mm length



Step 2

Open the activator tin and
pour contents into the base
unit.



Step 3

Mix the two components
using the spatula provided,
ensure any unmixed material
around the edges is mixed.



Step 4

To ensure the product is fully
mixed check the material for
any colour difference. The
mixed material should be a
consistent mix.



Step 5

Once the material is fully
mixed use a short bristled
brush to apply the coating to
the repair surface.

About Resimac

A UK based manufacturer of epoxy and polyurethane coatings and repair materials.

From our head office in the heart of rural North Yorkshire, England we supply our range of Epoxy, Polyurethane & Silicone coatings and repair materials to the Oil & Gas, Petrochemical, Marine, Paper & Pulp, Water, Power Generation & Chemical Industries.

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.

Information & Enquiries

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