# Intercure® 200HS

## Rapid Recoat Epoxy

**PRODUCT DESCRIPTION**

A two component, high solids, low VOC, epoxy zinc phosphate/micaceous iron oxide primer offering excellent barrier protection, low temperature cure and rapid overcoating properties.

**INTENDED USES**

As a primer for steelwork intended for use in a wide range of environmental conditions including offshore, chemical and petrochemical plants, industrial buildings, pulp and paper mills, power plants and bridges.

Suitable for overcoating within 7 hours in most climatic conditions hence speeding up production and throughput in fabrication shops.

Provides quick cure even at low temperatures often encountered in maintenance painting.

**PRACTICAL INFORMATION FOR INTERCURE 200HS**

| | |
|---|---|
| **Colour** | Sand, Grey, Red |
| **Gloss Level** | Matt |
| **Volume Solids** | 80% |
| **Typical Thickness** | 150-200 microns (6-8 mils) dry equivalent to<br>188-250 microns (7.5-10 mils) wet |
| **Theoretical Coverage** | 5.33 m²/litre at 150 microns d.f.t and stated volume solids<br>214 sq.ft/US gallon at 6 mils d.f.t and stated volume solids |
| **Practical Coverage** | Allow appropriate loss factors |
| **Method of Application** | Airless Spray, Air Spray, Brush, Roller |

**Drying Time**

| | | | Overcoating Interval with recommended topcoats | |
|---|---|---|---|---|
| **Temperature** | **Touch Dry** | **Hard Dry** | *Minimum* | *Maximum* |
| 5°C (41°F) | 4 hours | 10 hours | 7 hours | Extended[1] |
| 15°C (59°F) | 3 hours | 6 hours | 4 hours | Extended[1] |
| 25°C (77°F) | 2 hours | 3 hours | 3 hours | Extended[1] |
| 40°C (104°F) | 30 minutes | 1 hour | 1 hour | Extended[1] |

[1] See International Protective Coatings Definitions and Abbreviations

**REGULATORY DATA**

| | | |
|---|---|---|
| **Flash Point (Typical)** | Part A 38°C (100°F); Part B 27°C (81°F); Mixed 33°C (91°F) | |
| **Product Weight** | 1.67 kg/l (13.9 lb/gal) | |
| **VOC** | 1.91 lb/gal (230 g/lt) | EPA Method 24 |
| | 139 g/kg | EU Solvent Emissions Directive (Council Directive 2010/75/EU) |
| | 187 g/lt | Chinese National Standard GB23985 |

See Product Characteristics section for further details

## SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

**Abrasive Blast Cleaning**
Abrasive blast clean to Sa2½ (ISO 8501-1:2007) or SSPC-SP6. If oxidation has occurred between blasting and application of Intercure 200HS, the surface should be reblasted to the specified visual standard.

Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.

Intercure 200HS is suitable for application to blast cleaned surfaces which were initially to the above standard but have been allowed to deteriorate under good shop conditions for up to 7-10 days. The surface may deteriorate to Sa2 standard but must be free from loose powdery deposits.

A sharp, angular profile of 50-75µm (2-3 mils) should be achieved.

**Shop Primed Steel**
Weld seams and damaged areas should be blast cleaned to Sa2½ (ISO 8501-1:2007) or SSPC-SP6.

If the shop primer shows extensive or widely scattered breakdown overall sweep blasting may be necessary.

## APPLICATION

**Mixing**

Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Once the unit has been mixed it must be used within the working pot life specified.
(1) Agitate Base (Part A) with a power agitator.
(2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.

**Mix Ratio**

3 part(s) : 1 part(s) by volume

**Working Pot Life**

| 5°C (41°F) | 15°C (59°F) | 25°C (77°F) | 40°C (104°F) |
|---|---|---|---|
| 150 minutes | 90 minutes | 1 hour | 20 minutes |

| | | |
|---|---|---|
| **Airless Spray** | Recommended | Tip Range 0.45-0.58 mm (18-23 thou)<br>Total output fluid pressure at spray tip not less than 170 kg/cm² (2417 p.s.i.) |
| **Air Spray (Pressure Pot)** | Recommended (5% thinning required) | Gun DeVilbiss MBC or JGA<br>Air Cap 704 or 765<br>Fluid Tip E |
| **Brush** | Suitable - small areas only | Typically 75 microns (3.0 mils) can be achieved |
| **Roller** | Suitable - small areas only | Typically 75 microns (3.0 mils) can be achieved |
| **Thinner** | International GTA220 | Thinning is not normally required. Consult the local representative for advice during application in extreme conditions. Do not thin more than allowed by local environmental legislation. |

**Cleaner**

International GTA220 (or GTA415)

**Work Stoppages**

Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA220. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed units.

**Clean Up**

Clean all equipment immediately after use with International GTA220. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, including any delays.

All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

**PRODUCT CHARACTERISTICS**

Intercure 200HS is preferred for use with systems for chemical environments where zinc based materials can be subject to attack in both acidic and alkaline conditions.

Over-application should be avoided as thick films will not be as good a substrate for topcoat adhesion after ageing as those at the specified thickness.

Surface temperature must always be a minimum of 3°C above dew point.

This product must only be thinned using recommended International GTA220 thinners. The use of alternative thinners, particularly those containing ketones, can severely inhibit the curing mechanism of the coating.

At low temperatures, it may be necessary to thin Intercure 200HS to enable airless spray application to be performed. Normally 2% thinning (by volume) with International GTA220 will be satisfactory for this purpose.

Intercure 200HS is capable of curing at temperatures below 0°C (32°F). However, this product should not be applied at temperatures below 0°C (32°F) where there is a possibility of ice formation on the substrate.

This product is not available in pale and pastel shades due to a tendency to discolour rapidly. Additionally, in common with all epoxies Intercure 200HS will chalk on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

Intercure 200HS is not intended for use as a primer for steelwork which may be subjected to continuous immersion conditions.

Intercure 200HS can also be used as a primer for substrates other than blasted steel, e.g. stainless steel, alloys, etc. Consult International Protective Coatings for further details.

Absolute measured adhesion of topcoats to aged Intercure 200HS is less than that to fresh material, however, it is adequate for the specified end use.

Over-application of Intercure 200HS will extend both the minimum overcoating periods and handling times, and may be detrimental to long term overcoating properties.

Excessive over application of material on areas such as poorly prepared welds may result in long term stress cracking and so early failure.

Note: VOC values are typical and are provided for guidance purpose only. These may be subject to variation depending on factors such as differences in colour and normal manufacturing tolerances.

Low molecular weight reactive additives, which will form part of the film during normal ambient cure conditions, will also affect VOC values determined using EPA Method 24.

---

**SYSTEMS COMPATIBILITY**

Intercure 200HS will normally be applied to suitably prepared steel, e.g. blast cleaned. However, if necessary, application over prefabrication blast primers can be performed. Consult International Protective Coatings for further details.

Recommended topcoats/intermediates are:

| | |
|---|---|
| Intercure 420HS | Intercure 4500 |
| Interfine 629HS | Interfine 691 |
| Interfine 878 | Interfine 979 |
| Intergard 410 | Intergard 345 |
| Intergard 475HS | Intergard 740 |
| Interseal 670HS | Interthane 870 |
| Interthane 990 | Interzone 1000 |
| Interthane 990E | |

For other suitable topcoats/intermediates, consult International Protective Coatings.

**ADDITIONAL INFORMATION**

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at www.international-pc.com:

- Definitions & Abbreviations
- Surface Preparation
- Paint Application
- Theoretical & Practical Coverage

Individual copies of these information sections are available upon request.

---

**SAFETY PRECAUTIONS**

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Safety Data Sheet and the container(s), and should not be used without reference to the Safety Data Sheet (SDS).

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.

If in doubt regarding the suitability of use of this product, consult AkzoNobel for further advice.

| **PACK SIZE** | Unit Size | Part A | | Part B | |
|---|---|---|---|---|---|
| | | Vol | Pack | Vol | Pack |
| | 20 litre | 15 litre | 20 litre | 5 litre | 5 litre |
| | 4 US gal | 3 US gal | 5 US gal | 1 US gal | 1 US gal |
| | For availability of other pack sizes, contact AkzoNobel. | | | | |

| **SHIPPING WEIGHT (TYPICAL)** | Unit Size | Part A | Part B |
|---|---|---|---|
| | 20 litre | 30.5 kg | 5.4 kg |
| | 4 US gal | 47.3 lb | 8.1 lb |

| **STORAGE** | Shelf Life | 12 months minimum at 25°C (77°F).<br>Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition. |
|---|---|---|

**Important Note**

*The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.*

*This Technical Data Sheet is available on our website at www.international-marine.com or www.international-pc.com, and should be the same as this document. Should there be any discrepancies between this document and the version of the Technical Data Sheet that appears on the website, then the version on the website will take precedence.*

*Copyright © AkzoNobel, 08/12/2023.*

*All trademarks mentioned in this publication are owned by, or licensed to, the AkzoNobel group of companies.*

**www.international-pc.com**