

Acrylic Intumescent

PRODUCT DESCRIPTION

A one component, solvent based, high solids intumescent coating independently tested at accredited laboratories to assess fire protection performance on structural steelwork in accordance with the European Standard EN 13381-8 (See Product Characteristics).

Interchar 404 is a CE marked product with European Technical Approval ETA-09/0259.

INTENDED USES

To provide up to 2 hours fire protection on 'I' sections beams, columns and hollow sections.

Due to its fast drying properties, and rapid recoatability, Interchar 404 is suitable for application in the steel fabrication shop and can be used over a wide range of approved priming systems.

PRACTICAL INFORMATION FOR INTERCHAR 404

Colour	White, Grey			
Gloss Level	Matt			
Volume Solids	75% ± 2%			
Typical Thickness	200-1000 microns (8-40 mils) dry equivalent to 267-1333 microns (10.7-53.3 mils) wet			
Theoretical Coverage	1 m ² /litre at 750 microns d.f.t and stated volume solids 40 sq.ft/US gallon at 30 mils d.f.t and stated volume solids			
Practical Coverage	Allow appropriate loss factors			
Method of Application	Airless Spray, Brush			
Drying Time	Overcoating interval with self			
Temperature	Touch Dry	Hard Dry	<i>Minimum</i>	<i>Maximum</i>
10°C (50°F)	60 minutes	24 hours	9 hours	Extended ¹
15°C (59°F)	60 minutes	22 hours	7 hours	Extended ¹
25°C (77°F)	40 minutes	18 hours	5 hours	Extended ¹
40°C (104°F)	20 minutes	8 hours	3 hours	Extended ¹

¹ See International Protective Coatings Definitions and Abbreviations

All drying time data has been quoted at the typical thickness of 750 microns (30 mils) d.f.t.

Sealer coat should be applied as soon as possible after completion of the final coat of Interchar 404 (minimum 2-4 hours for Intersheen 579; 24 hours for Interthane or Interfine sealers). However, d.f.t. must be checked to ensure that specified thickness has been achieved before any sealer coat is applied.

REGULATORY DATA

Flash Point (Typical)	5°C (41°F)	
Product Weight	1.37 kg/l (11.4 lb/gal)	
VOC	237 g/kg	EU Solvent Emissions Directive (Council Directive 2010/75/EU)

Protective Coatings

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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.

Primed Surfaces

Interchar 404 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be of normal appearance, dry and free from all contamination, and Interchar 404 must be applied within the overcoating intervals specified (consult the relevant product data sheet).

Areas of breakdown, damage etc., should be prepared to the specified standard (e.g. Sa2½ (ISO 8501-1:2007) or SSPC SP6, Abrasive Blasting, or SSPC SP11, Power Tool Cleaning) and patch primed prior to the application of Interchar 404.

Metallic Zinc Primed Surfaces

Interchar 404 can be applied over approved zinc epoxy primers. Ensure that the surface of the primer is clean, dry and free from contamination and zinc salts before application of Interchar 404. Ensure zinc primers are fully cured before overcoating. The use of a tie coat, typically Intergard 269 or Intergard 276, is recommended to prevent accumulation of zinc salts.

APPLICATION

Mixing	This material is a one component coating and should always be mixed thoroughly with a power agitator before application.	
Mix Ratio	Not applicable	
Airless Spray	Recommended	Tip Range 0.48-0.59 mm (19-23 thou) Total output fluid pressure at spray tip not less than 246 kg/cm ² (3498 p.s.i.) A 9.0mm (3/8") bore fluid line attached to a 6.5mm (1/4") bore whip end is recommended
Air Spray (Pressure Pot)	Not recommended	
Brush	Suitable	Recommended for small areas and repairs, multiple coats will be necessary to achieve the required dry film thickness.
Roller	Not recommended	
Thinner	Not normally required	
Cleaner	International GTA007	
Work Stoppages	Thoroughly flush all equipment with International GTA007. All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning and/or a viscosity increase of the material after storage.	
Clean Up	Clean all equipment immediately after use with International GTA007. 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.	

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PRODUCT CHARACTERISTICS

The detailed Interchar Solvent Based Application Guidelines should be consulted prior to use.

Maximum film build in one coat is best attained by airless spray. When applying by methods other than airless spray, the required film build is unlikely to be achieved. Low or high temperatures may require specific application techniques to achieve maximum film build. Over-application of Interchar 404 will extend both the minimum overcoating periods and handling times.

When applying Interchar 404 by brush, it may be necessary to apply multiple coats to achieve the total specified system dry film thickness.

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

When applying Interchar 404 in confined spaces ensure adequate ventilation.

The finished appearance of Interchar 404 is dependent on application method. For visible areas spray application is preferred. High decorative finishes may require additional preparation before application of sealer coat.

The final surface finish is dependent on application method. Avoid using a mixture of application methods whenever possible.

Interchar 404 (whether sealed or not) should be protected from pooling or running water. Interchar 404 is not designed for frequent water immersion/soaking.

A version with greater water resistance is available which allows for Interchar 404 to remain unsealed for up to 6 months exterior exposure (in ISO 12944 C2) provided there is no pooled/heavy running water, or frequent high humidity conditions.

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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.

SYSTEMS COMPATIBILITY

Interchar 404 has been tested as part of a coating system for use in fire situations over a wide range of approved priming systems.

The following primers are approved for use with Interchar 404:

Intercure 200	Intercure 200HS
Intergard 251	Intergard 269
Interplate 398	Interprime 306
Interseal 670HS	Interseal 1052
Interzinc 42	Interzinc 52

The following topcoats are approved for use with Interchar 404

Intersheen 579	Interthane 870
Interthane 990	Interthane 990SG

When using Interchar 404 in accordance with the European Technical Approval, surface preparation, primer and topcoat must be as stated within the approval and approved by International Protective Coatings.

Where a polysiloxane topcoat is envisaged, application of a tie coat over Interchar 404 will be necessary; please consult the Application Guidelines for further information.

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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
- Interchar Solvent Based Application Guidelines

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 International Protective Coatings for further advice.

PACK SIZE

Unit Size	Vol	Pack
20 litre	20 litre	20 litre

For availability of other pack sizes, contact International Protective Coatings.

SHIPPING WEIGHT (TYPICAL)

Unit Size	Weight
20 litre	27.4 kg

STORAGE

Shelf Life	Notes
12 months minimum at 25°C (77°F).	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.

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