

Intergard 435

E p o x y f i n i s h

Product Description

A high solids two-pack epoxy finish specifically designed for concrete flooring.

Tough, long wearing and abrasion resistant.

Resists scuffing and marring.

Excellent resistance to most alkalis, solvents, mild acids and water.

Excellent brush and roller application characteristics.

May be applied to damp concrete.

Intended Uses

A durable, economical flooring finish in all industrial applications. Use on concrete or steel floors in workshops, factories, food processing plants, showrooms, chemical plants, warehouses, refineries, printing works and other areas subject to chemical or solvent spillage where good cosmetic appearance is required.

May also be used as a high performance topcoat where the performance of an epoxy is required.

Practical Information for Intergard 435

Colour Wide range of colours available via the Chromascan system

Gloss Level Gloss

Volume Solids 84%

Typical Thickness 75-100 microns (3-4 mils) dry equivalent to 90-120 microns (3.6-4.8 mils) wet

Theoretical Coverage 10.7 m²/litre at 75 microns d.f.t and stated volume solids
437 sq.ft/US gallon at 3 mils d.f.t and stated volume solids

Practical Coverage Allow appropriate loss factors

Method of Application Brush, Roller, Conventional and airless spray.

Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating Interval with self	
			<i>Minimum</i>	<i>Maximum</i>
10°C (50°F)	6 hours	16 hours	16 hours	14 days
15°C (59°F)	5 hours	12 hours	12 hours	7 days
25°C (77°F)	3 hours	6 hours	6 hours	5 days
40°C (104°F)	1½ hours	3 hours	3 hours	3 days

Regulatory Data

Flash Point Base (Part A) 30°C (86°F) C/A (Part B) >65°C (>149°F) Mixed 34°C (93°F)

Product Weight 1.56 kg/l (13.0 lb/gal)

VOC 200 g/l UK - PG6/23(92), Appendix 3

Intergard 435

Epoxy finish

Surface Preparation

Concrete - Old

Completely remove any existing conventional flooring finishes by abrasive blasting. Sound existing epoxy coatings may be left in place but abrade surface thoroughly to provide key for next coat. All surfaces should be clean, dry and free from grease, oil, dirt and loose or disintegrating concrete.

Concrete - New

Concrete should be cured for a minimum of 28 days prior to coating. The moisture content of the concrete should be below 6%. All surfaces should be clean, dry and free from curing compounds, release agents, trowelling compounds, surface hardeners, efflorescence, grease, oil, dirt, old coatings and loose or disintegrating concrete. All poured and pre-cast concrete must also be swept blasted (preferred) or acid etched to remove laitence. Large cracks should be filled with a suitable filler.

Steel and galvanised substrate

Intergard 435 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination, and Intergard 435 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 8501-1:1988), SSPC-SP6, Abrasive Blasting, or SSPC-SP11, Hand/Power Cleaning) and patch primed prior to the application of Intergard 435.

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

4 parts : 1 part by volume

Working Pot Life

10°C (50°F)	15°C (59°F)	25°C (77°F)	40°C (104°F)
8 hours	4 hours	2 hours	60 minutes

Airless Spray

Recommended - Tip range 0.38-0.53 mm (15-21 thou)
- Total output fluid pressure at spray tip not less than 176 kg/cm² (2,500 p.s.i.)

Air Spray (Pressure Pot)

Suitable
Thin up to 10%
Gun DeVilbiss MBC or JGA
Air Cap 704 or 765
Fluid Tip E

Brush

Suitable for small areas Typically 120 microns (4.8 mils) can be achieved

Roller

Recommended Typically 120 microns (4.8 mils) can be achieved

Thinner

International GTA220

Cleaner

International GTA220

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 recommence 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.

Intergard 435

Epoxy finish

Product Characteristics

This product will not cure adequately below 5°C (41°F). For maximum performance ambient curing temperatures should be above 10°C (50°F).

Premature exposure to ponding water will cause a colour change, especially in dark colours as will exposure to some acids and alkalis.

Three coats may be required to achieve high gloss on porous concrete.

Recommended curing time for Intergard 435 is 24 hours at 25°C (77°F) before coating can be placed into service. Contact International Paints for recommended curing time under different conditions.

Slip resistance in this product is generally achieved by the addition of a suitable aggregate. The degree of slip resistance required will largely depend on the general environment involved. For example, wet conditions obviously pose a greater slip hazard than dry ones and will require an accordingly higher level of slip resistance. It must be considered however that increasing the aggregate profile or density will also increase the difficulty of cleaning and maintenance for that area. As such, the degree of slip resistance must be reconciled against the importance of cleaning and hygiene considerations.

Systems Compatibility

The following primers are recommended for Intergard 435 when applied over steel

Interzinc 12
Interzinc 22
Interzinc 42
Interzinc 52
Intercure 200
Interzinc 215
Intergard 251
Interzinc 315

The following intermediates are recommended for Intergard 435 when applied over steel

Intercure 420
Intergard 475
Intergard 475 HS
Interseal 670
Interseal 2020

If abrasive cleaning is not possible on steel, power tool to St2 (ISO 8501-1:1988) SSPC SP2 and apply either Interseal 670 HS or Interseal 2020 as the primer.

For application to concrete Intergard 435 is self-priming. For optimum performance concrete should be primed with Intergard 436.

For other suitable primers/intermediates, please consult International Protective Coatings.

Intergard 435

Epoxy finish

Additional Information

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following sections of the International Protective Coatings data manual:

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

Individual copies of the following information 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 Material Safety Data Sheet and the container(s), and should not be used without reference to the Material Safety Data Sheet (MSDS) which International Protective Coatings has provided to its customers.

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	20 litre unit	Intergard 435 Base Intergard 435 Curing Agent	16 litres in a 20 litre steel container 4 litres in a 4 litre steel container
	5 gallon unit	Intergard 435 Base Intergard 435 Curing Agent	4 gallons in a 5 gallon unit 1 gallon in a 1 gallon unit
	For availability of other pack sizes contact International Protective Coatings		
Shipping Weight	U.N. Shipping No. 1263		
	20 litre unit	28.5 kg (62.7 lb) Base (Part A) 5 kg (11.0 lb) Curing Agent (Part B)	
	5 gallon unit	27.1 kg (59.6 lb) Base (Part A) 4.8 kg (10.6 lb) Curing Agent (Part B)	
Storage	Shelf Life	24 months minimum at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.	

Disclaimer

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Any warranty, if given, or specific Terms & Conditions of Sale are contained in International's Terms & Conditions of Sale, a copy of which can be obtained on request. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or 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 whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

It is the user's responsibility to check that this sheet is current prior to using the product. Issue date: 26/06/2001

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