Interplus® 80

Polyurethane

PRODUCT DESCRIPTION

Interplus 80 is a high performance maintenance coating. Providing high solids, high build, fully recoatable application, it offers excellent brush and roller application, therefore eliminating the need for multiple coats.

Excellent resistance to corrosive industrial or coastal environments.

May be applied directly to aged coatings including alkyds and epoxies.

INTENDED USES

Interplus 80 has been specifically designed for roller or brush application. This allows the application of a polyurethane coating while greatly reducing the health risks arising from isocyanates in spray mist form. Interplus 80 provides superior gloss and color retention even in severe industrial and coastal environments and is the ideal maintenance coating for:

Bridges, structural steel, roofing and storage tanks;

High profile shopping and entertainment centers, sports complexes and arenas;

Food and dairy processing plants.

PRACTICAL INFORMATION FOR INTERPLUS 80

Color	Wide range via the Chromascan® system
Gloss Level	High Gloss
Volume Solids	76%
Typical Thickness	4-6 mils (100-150 microns) dry equivalent to 5.3-7.9 mils (132-197 microns) wet
Theoretical Coverage	244 sq.ft/US gallon at 5 mils d.f.t and stated volume solids 6.10 m²/liter at 125 microns d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Brush, Roller, Power Roller

Drying Time

			Overcoating interval with self	
Temperature	**Touch Dry**	**Hard Dry**	*Minimum*	*Maximum*
50°F (10°C)	15 hours	36 hours	24 hours	Extended[1]
59°F (15°C)	10 hours	24 hours	22 hours	Extended[1]
77°F (25°C)	5 hours	18 hours	18 hours	Extended[1]
104°F (40°C)	2 hours	7 hours	7 hours	Extended[1]

[1] See International Protective Coatings Definitions & Abbreviations

REGULATORY DATA

Flash Point	Part A 99°F (37°C); Part B 135°F (57°C); Mixed 99°F (37°C)
Product Weight	1.27 kg/l (10.58 lb/gal) (light base)
VOC	1.79 lb/gal (215 g/lt) EPA Method 24

See Product Characteristics section.

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.

Primed Surfaces

Interplus 80 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination, and Interplus 80 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. SSPC-SP6 or Sa2½ (ISO 8501 -1:2007), Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of Interplus 80.

Previously Painted Surfaces

Interplus 80 is suitable for overcoating most tightly adherent aged coatings. Loose or flaking coatings should be removed back to a firm edge. Glossy finishes may require light abrasion to provide a physical "key". All remaining coating must be tested to ensure adequate adhesion. To ensure compatibility, application and evaluation of a test patch is required.

Concrete Surfaces

Interplus 80 is not designed for application direct to concrete substrates. Contact International Protective Coatings for details of a suitable epoxy primer/sealer.

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

Working Pot Life

41°F (5°C)	59°F (15°C)	77°F (25°C)	104°F (40°C)
3 hours	2.5 hours	2 hours	1 hour

Airless Spray	Not recommended	
Air Spray (Pressure Pot)	Not recommended	
Brush	Recommended	Typically 4.0 mils (100 microns) can be achieved
Roller	Recommended	Typically 4.0 mils (100 microns) can be achieved
Thinner	International GTA056	Do not thin more than allowed by local environmental legislation. See Product Characteristics
Cleaner	International GTA056	

Work Stoppages

Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA056. 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 GTA056. 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

The maximum overcoating interval for Interplus 80 with itself is indefinite, as long as the film is clean, intact and sound. When overcoating after weathering, or aging, ensure the coating is fully cleaned to remove all surface contamination such as oil, grease, salt crystals and traffic fumes, before application of a further coat of Interplus 80.

When applying Interplus 80 by brush or roller, it may be necessary to apply multiple coats to achieve the total specified system dry film thickness.

This product must only be thinned using the specified thinners. The use of alternative thinners can severely inhibit the curing mechanism and film durability. When thinning Interplus 80, ensure that parts A and B are thoroughly mixed before adding thinner. Addition of thinner before mixing may result in surface defects such as pin-holing and 'fish-eye'.

When applying Interplus 80 in confined spaces, ensure adequate ventilation.

Condensation occurring during or immediately after application may result in a matte finish and an inferior film. Premature exposure to ponding water will cause color change, especially in dark colors and at low temperatures.

Light colors of Interplus 80 may yellow slightly on internal exposure. If subsequently exposed to sunlight this yellowing will disappear.

This product will not cure adequately below 41ºF (5ºC) or at humidities above 85%. For maximum performance, ambient curing temperatures should be above 50ºF (10ºC). Consult International Protective Coatings for details.

Surface temperature must always be a minimum of 5°F (3°C) above dew point.

Part B is extremely moisture sensitive. Keep tightly sealed and under cover when not in use. Use moisture traps in all lines.

This product is not recommended for use in immersion conditions. When severe chemical or solvent splashing is likely to occur, contact International Protective Coatings for information regarding suitability.

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 color 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

Interplus 80 is not designed to be applied directly to a bare substrate. The use of a suitable primer is required. The following primers are recommended:

Intercure 200HS
Intergard 251
Intergard 475HS
Interplus 356
Interseal 670HS

Do not apply directly to zinc rich coatings.

For other suitable primers 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 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.

Warning: Contains isocyanate. Wear air-fed hood for spray application.

PACK SIZE

Unit Size	Part A		Part B	
	Vol	Pack	Vol	Pack
1 US gal	0.8 US gal	1 US gal	0.2 US gal	0.25 US gal
5 US gal	4 US gal	5 US gal	1 US gal	1 US gal

For availability of other pack sizes contact International Protective Coatings

SHIPPING WEIGHT

Unit Size	Part A	Part B
1 US gal	9.5 lb	2.2 lb
5 US gal	46.5 lb	10.1 lb

STORAGE

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

Important Note

Issue date: 7/7/2009

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