Interseal_® 1052



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PRODUCT
DESCRIPTION

A two component, low VOC, high solids, fast curing anti-corrosive epoxy coating.

Both zinc phosphate and micaceous iron oxide pigmented versions are available. The micaceous iron oxide version conforms to BS5493:1977 KUID & KUIF.

INTENDED USES

SES Specifically designed for application to abrasive blasted steel in atmospheric areas. Ideal for use in moderately corrosive environments and where fast drying/rapid recoating is desired.

In maintenance and repair areas, an aluminium pigmented version is available for use over hand prepared and hydroblasted steel surfaces.

PRACTICAL INFORMATION FOR INTERSEAL 1052

Colour	Limited range
Gloss Level	Semi Gloss
Volume Solids	83%
Typical Thickness	75-250 microns (3-10 mils) dry equivalent to 90-301 microns (3.6-12 mils) wet
Theoretical Coverage	6.64 m²/litre at 125 microns d.f.t and stated volume solids 266 sq.ft/US gallon at 5 mils d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless Spray, Brush, Roller

Drying Time

				g Interval with ded topcoats
Temperature	Touch Dry	Hard Dry	Minimum	Maximum
5°C (41°F)	8 hours	24 hours	24 hours	Extended ¹
15°C (59°F)	4 hours	8 hours	8 hours	Extended ¹
25°C (77°F)	2 hours	5 hours	5 hours	Extended ¹
40°C (104°F)	90 minutes	4 hours	4 hours	Extended ¹

¹ See International Protective Coatings Definitions and Abbreviations

For curing at low temperatures an alternative curing agent is available. See Product Characteristics for details.

REGULATORY DATA	Flash Point (Typical)	Part A 25°C (77°F); Part E	3 28°C (82°F); Mixed 30°C (86°F)
	Product Weight	1.627 kg/l (13.6 lb/gal)	
	VOC	141 g/kg	EU Solvent Emissions Directive (Council Directive 2010/75/EU)
		171 g/lt	Chinese National Standard GB23985

See Product Characteristics section for further details

Protective Coatings

AkzoNobel

Interseal_® 1052



Epoxy SURFACE PREPARATION

The performance of this product will depend upon the degree of surface preparation. The surface 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 Sa2 $\frac{1}{2}$ (ISO 8501-1:2007) or SSPC-SP6. If oxidation has occurred between blasting and application of Interseal 1052, 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.

Interseal 1052 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.

Hand or Power Tool Preparation (Aluminium version only)

Hand or power tool clean to a minimum of St2 (ISO 8501-1:2007) or SSPC-SP2.

Note, all scale must be removed and areas which cannot be prepared adequately by chipping or needle gun should be spot blasted to a minimum standard of Sa2 (ISO 8501-1:2007) or SSPC-SP6. Typically this would apply to C or D grade rusting in this standard.

Ultra High Pressure Hydroblasting / Abrasive Wet Blasting (Aluminium version only)

May be applied to surfaces prepared to Sa2½ (ISO 8501-1:2007) or SSPC-SP6 which have flash rusted to no worse than Grade HB2½M (refer to International Hydroblasting Standards) or Grade SB2½M (refer to International Slurry Blasting Standards). It is also possible to apply to damp surfaces in some circumstances. Further information is available from International Protective Coatings.

Shop Primed Steelwork

Weld seams and damaged areas should be blast cleaned to Sa2¹/₂ (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. Agitate Base (Part A) with a power agitator. (1)Combine entire contents of Curing Agent (Part B) with Base (2) (Part A) and mix thoroughly with power agitator. Mix Ratio 4 part(s) : 1 part(s) by volume 5°C (41°F) 15°C (59°F) Working Pot Life 25°C (77°F) 40°C (104°F) 2.5 hours 2 hours 2 hours 75 minutes Airless Spray Recommended Tip Range 0.48-0.66 mm (19-26 thou) Total output fluid pressure at spray tip not less than 176 kg/cm² (2503 p.s.i.) Brush Suitable - small areas Typically 75-100 microns (3.0-4.0 mils) can be achieved only Roller Suitable - small areas Typically 75-100 microns (3.0-4.0 mils) can be achieved only Thinner International GTA220 Do not thin more than allowed by local environmental legislation. International GTA822 Cleaner Work Stoppages Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA822. 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 all equipment immediately after use with International GTA822. It is good Clean Up 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

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. Application by air spray may require a multiple cross spray pattern to attain maximum film build. Low or high temperatures may require specific application techniques to achieve maximum film build.

When applying Interseal 1052 by brush or roller, it may be necessary to apply multiple coats to achieve the required film build.

To achieve 75 microns dry film thickness via spray application, it is recommended that Interseal 1052 is thinned approximately 5% by volume using International GTA220.

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

When applying Interseal 1052 in confined spaces ensure adequate ventilation.

Interseal 1052 is not designed for continuous water immersion.

Condensation occurring during or immediately after application may result in a matt finish and an inferior film.

Level of sheen and surface finish are dependent on application method. Avoid using a mixture of application methods whenever possible.

In common with all epoxies Interseal 1052 will chalk and discolour on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

Where a durable cosmetic finish with good gloss and colour retention is required overcoat with recommended topcoats.

Interseal 1052 low temperature grade curing agent is available to enable more rapid cure at temperatures less than 5°C (41°F), however this curing agent will give an initial shade variation and more rapid discolouration on weathering.

The coating will appear hard dry after 26 hours at temperatures below $0^{\circ}C$ (32°F). However minimum overcoating interval at $0^{\circ}C$ (32°F) and $-5^{\circ}C$ (23°F) is 40 hours and 48 hours, respectively.

Interseal 1052 is capable of curing at temperatures lower than $-5^{\circ}C$ (23°F); however, cure time will be significantly prolonged at these temperatures.

This product should not be applied at temperatures below $0^{\circ}C$ ($32^{\circ}F$) where there is a possibility of ice formation on the substrate.

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.

Pot Life	-5°C (23°F)	0°C (32°F)	5°C (41°F)
	8 hours	5.5 hours	3 hours

SYSTEMS COMPATIBILITY

Interseal 1052 is normally applied directly to steel, however, it can be applied over the following primers:

Interzinc 52 Interzinc 22 series Interzinc 72

The following topcoats are recommended:

Intergard 345Interthane 870Intergard 740Interthane 990Interfine 691Interthane 990EInterfine 629HSInterthane 990E

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





Epoxy

	can be found in the follow	ding industry standards, te ving documents available a	erms and abbre at www.interna	eviations used in this data sheet tional-pc.com:
	Definitions &	Abbreviations		
	Surface Prep	paration		
	Paint Applica	tion		
	Theoretical 8	Practical Coverage		
	Individual copies of these	e information sections are a	available upon	request.
AFETY RECAUTIONS	accordance with the adv should not be used with All work involving the ap relevant national, Health In the event welding or fl	but reference to the Safety plication and use of this pro , Safety & Environmental s ame cutting is performed o	e Safety Data S Data Sheet (S oduct should b tandards and	Sheet and the container(s), and DS). DS). e performed in compliance with all regulations.
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