Railway Wheel Paint

Alkyd

PRODUCT DESCRIPTION

An oleoresinous varnish for use as a coating for railway wheels and railway rolling stock.

INTENDED USES

As this product changes colour from light grey to dark grey at 300°C, it serves as an indicator of possible overheating of components. Typically indicates the overheating associated with bearing wear.

PRACTICAL INFORMATION FOR RAILWAY WHEEL PAINT

Colour	Grey
Gloss Level	Semi Gloss
Volume Solids	45% ± 3%
Typical Thickness	30 microns d.f.t (70 microns w.f.t)
Theoretical Coverage	15 m²/litre at 30 microns d.f.t
Practical Coverage	Allow appropriate loss factors
Method of Application	Roller, Brush, Conventional Spray

Drying Time

			Overcoating Interval with recommended topcoats	
Temperature	**Touch Dry**	**Hard Dry**	*Minimum*	*Maximum*
10°C (50°F)	10 hours	48 hours	48 hours	Extended[1]
15°C (59°F)	8 hours	36 hours	36 hours	Extended[1]
25°C (77°F)	6 hours	24 hours	24 hours	Extended[1]
40°C (104°F)	4 hours	8 hours	24 hours	Extended[1]

[1] See International Protective Coatings Definitions and Abbreviations

REGULATORY DATA

Flash Point (Typical)	26°C (79°F)	
Product Weight	1.19 kg/l (9.9 lb/gal)	
VOC	467 g/lt	Calculated

See Product Characteristics section for further details

SURFACE PREPARATION

The performance of this product will depend upon the degree of surface preparation. The surface to be coated must be clean and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000.

Accumulated dirt and soluble salts must be removed. Dry bristle brushing will normally be adequate for accumulated dirt. Soluble salts should be removed by fresh water washing.

Abrasive Blast Cleaning
Abrasive blast clean to Sa2½ (ISO 8501-1:2007) or SSPC-SP6.
Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.

Maintenance and Site Touch-up
The product is designed for application to surfaces prepared to St2 (ISO 8501-1:2007) or SSPC-SP 2. When using power tools care should be taken to avoid surface polishing. The product may also be applied to surfaces which have been brush blasted to Sa1 (ISO 8501-1:2007) or SSPC-SP 7. On poor surfaces, brush application will aid performance.

APPLICATION

Mixing	This material is a one component coating and should always be mixed thoroughly with a power agitator before application.
Air Spray (Conventional)	Recommended
Brush	Recommended
Roller	Recommended
Thinner	International GTA004
Cleaner	International GTA004
Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with suitable solvent. 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 appropriate solvent. 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 material and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

PRODUCT CHARACTERISTICS

Railway Wheel grey is designed primarily for site application. Airless spray application at factory can easily lead to over-application with slow through drying and difficulty in handling. Over-application can also cause wrinkling on over coating after ageing.

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

As with all alkyd systems, Railway Wheel Paint has limited chemical and solvent resistance and is not suitable for use in immersion situations or in conditions of continous condensation.

For brush and roller application, two coats of Railway Wheel Paint may be required to give uniform coverage.

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

This product is normally applied directly to correctly prepared steel substrates and is not normally topcoated.

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.

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		
	20 litre	23.77 kg	
STORAGE	Shelf Life	24 months minimum at 25°C. Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.	

Important Note

www.international-pc.com