

Technical Department Bulletin

NUMBER : 2676

DATE : OCTOBER 22, 1963

SUBJECT: NOXIDE EQUIPMENT ENAMEL

FILE: E-A-C-31

GOODS: SEE BELOW
(U.S. & CAN.)*See Supp. #1*

Use Durable, rust-inhibitive, exterior-interior enamel for machinery, pipe lines, tractors and other farm equipment.

Weight U.S. Gallon 8 lbs. 1 oz. to 10 lbs. 5 oz., depending on color.
Can. Gallon 9 lbs. 11 oz. to 12 lbs. 12 oz., depending on color.

Color 16 Black, B16 - NOT a jet black.
152 Bright Blue, E152 - same color as P&L Machinery Enamel Blue.
156 Bright Green, E156 - approximates John Deere Green and J.I. Case Green.
158 Bright Red, E158 - approximates International Harvester Red, Oliver Red, and J.I. Case Red.
160 Bright Yellow, E160 - approximates John Deere Yellow, and Safety Yellow.
154 Haze Gray, E154.
157 International Orange, E157 - matches Federal Standard No. 595, color 12197; same as Aviation Surface Orange.
153 Medium Gray, E153 - approximates Ferguson Gray and Machine Tool Light Gray (7-B Lt. Gray).
159 School Bus Yellow, E159 - approximates International Harvester 409 Schoolbus Yellow, and Massey-Ferguson Yellow.

Consistency Medium brushing

Application Brush easily at package consistency. For spraying, thin each gallon with one pint Duosol or mineral spirits.

Clean brushes or equipment with Duosol or mineral spirits.

Drying Dust free 2 hours
To recoat or use 7 hours

Gloss Good

Leveling Good

Hiding Good to very good, depending on color

Elasticity Good

	Colors	Black
Spreading	U.S. Gallon 850 sq. ft.	1000 sq. ft.
Rate	Can. Gallon 1020 sq. ft.	1200 sq. ft.

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Remarks

Noxide Equipment Enamel was adopted at the September 4-5, 1963 Managers' Meeting and will be announced at the 1964 Sales Meetings. It will replace P&L Machinery Enamel, the discontinuance date for which has not been established.

BACKGROUND

P&L Machinery Enamel was initially named P&L Machinery & Implement Paint. A low cost oil enamel, the latter was primarily intended for use on farm tools. Later, its role as a factory maintenance paint was recognized, and the word Implement was dropped from the name. The present P&L Machinery Enamel is a practical interior paint, but its outdoor serviceability is limited to only one season. It is not rust-inhibiting and it lacks the service life now expected of an exterior enamel. The colors no longer approximate popular farm equipment colors, or widely accepted maintenance colors.

COMPOSITION

Noxide Equipment Enamel is a totally new product. It is essentially a good quality alkyd enamel, that has been fortified with a rust-inhibitive component, chemically identified as basic lead silico chromate. The latter has attained general acceptance as a rust inhibitor among corrosion authorities. Basic lead silico chromate is orange and this accounts for the fact that Noxide Equipment Enamel 16 Black is not jet black. All colors have been carefully formulated to accomodate the color of the inhibitor.

PERFORMANCE

Noxide Equipment Enamel offers markedly better exterior serviceability, better rust resistance and better gloss and color retention than P&L Machinery Enamel. This superiority is particularly evident in single coat applications direct to steel. While P&L Machinery Enamel has been recommended for one or two coat work on new exterior metal, protection can be insured only by applying multiple coats. This overcomes the danger of "holidays" that are bound to develop in one coat brush work. We are recommending multiple coats of Noxide Equipment Enamel on new work.

Because Noxide Equipment Enamel is rust-inhibitive and has good adhesion, it may be used as its own primer on interior work, and on small exterior areas (such as a householder might desire to finish), or to spot prime repaint work. On exterior commercial and architectural work, a primer, like Noxide One Day Primer, or P&L No. 25 Zinc Chromate Primer is desirable and is recommended in our specifications.

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Noxide Equipment Enamel behaves like a typical alkyd enamel and produces a smooth glossy film. It is intended primarily for machinery, equipment, and other metal work that requires both a protective and decorative treatment. Noxide Metal Paint, most items of which are also rust-inhibitive, is better adapted for use on structural metal, where decoration is secondary to protection.

Noxide Equipment Enamel has many qualities that are similar to those of Effecto Enamel, but the former is specifically formulated for use on metal. Effecto Enamel is a general purpose wood and metal finish, and is not claimed to be rust-inhibitive. It dries faster than Noxide Equipment Enamel, but the red and yellow colors in Effecto do not hide as well as Noxide Equipment Enamel in the same color families.

IDENTIFICATION BY COLOR

The American Standards Association and the National Safety Council have been active in promoting color coding of factory equipment and pipe lines to indicate fire and safety hazards. Suggested Noxide Equipment Enamel colors for these purposes are outlined below:

<u>Color</u>	<u>Equipment</u>	<u>Pipe Lines</u>
158 Bright Red	Fire alarm boxes Fire Extinguishers Fire Hose Locations Hazardous Solvent Containers Emergency Stop Bars on dangerous machinery	Sprinkler systems
157 International Orange	Dangerous moving parts of machinery Exposed edges of gears, cutters Surfaces inside moveable machinery guards	Dangerous, but non-flammable materials, such as hot water or poisonous gases.
160 Bright Yellow	Caution signs Pillars, posts Handrails Platform edges Material handling equipment	Dangerous flamm- able liquids or gases.
156 Bright Green	First Aid Kits Stretchers Gas Masks	Safe materials, such as brine and cold water.

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<u>Color</u>	<u>Equipment</u>	<u>Pipe Lines</u>
152 Bright Blue	Warning against movement of equipment under repair or in use, like ladders and scaffolding.	Protective materials (for decreasing the hazard of dangerous materials).
105 Aluminum*		Steam

*Noxide Metal Paint; NOT in Noxide Equipment Enamel line.

The Noxide Equipment Enamel colors listed above are NOT exact matches for the Safety Colors specified by ASA in American Standard Z53.1 (or Federal Standard 595 Safety Colors). The Noxide Equipment Enamel colors are distinctive enough so they are not likely to be confused by color-blind persons (the main concern of ASA). For those who may wish to know exactly how Noxide Equipment Enamel colors deviate from Safety Colors, the following comparison is available:

158 Bright Red	Less yellow than Safety Red.
157 International Orange	Considerably redder and less yellow than Safety Orange.
160 Bright Yellow	Close; trace chalkier than Safety Yellow.
156 Bright Green	Richer and appreciably deeper and yellower than Safety Green.
152 Bright Blue	Greener and less red than Safety Blue.

RADIATION PURPLE

Among the Safety Colors specified by ASA is purple (for designating radiation hazards). We have no purple in the Noxide Equipment Enamel line, nor can one be produced by mixing 158 Bright Red and 152 Bright Blue. The closest we can come to Safety Color Purple is with Effecto Enamel 8500 Lilac in the P&L Machine System. The latter, is recommended in the Specification Manual for Sewage Disposal, Water Treatment & Engineering Projects. It is much grayer and less red than the ASA standard. Since purple is likely to be required in very limited quantities and very infrequently, its absence from the ready mixed colors of Noxide Equipment Enamel and Effecto Enamel should create little hardship.

OTHER COLOR COMMENTS

The significance of certain color names or color purposes is self-evident from the descriptions on page 1. 157 International Orange, for example, is the color specified by FAA and CAA for marking ground installations and to identify aviation hazards, such as TV and radio transmission towers (for the latter use, alternate orange

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and white stripes are required for maximum visibility against blue sky). While 157 International Orange meets the color requirements of Federal Specification TT-P-59 Paint: Ready-Mixed International Orange, it does not meet the other requirements of the specification. TT-P-59 Paint is frequently specified by purchasers of International Orange.

153 Medium Gray approximates the color adopted by the National Machine Tool Builders' Association as Standard Machine Tool Light Gray (7-B Light Gray). It is also the same as ASA color No. 49.

SPECIFICATIONS

NEW EXTERIOR WORK - First Coat: Noxide One Day Primer or P&L No. 25 Zinc Chromate Primer. Second and Third Coats: Noxide Equipment Enamel.

NEW INTERIOR WORK - Two coats Noxide Equipment Enamel.

OLD WORK - Touch up bare spots, then apply one or two coats over entire area.

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