

# GALSTAFF MULTIRESINE

SPECIALITY RESINS AND AUXILIARIES

Data Sheet

Date of issue: 26 May 2005

Ref: MP/dr

## FTALON TN

Non yellowing saturated polyester for high quality 2-Pack PU coatings

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### CHARACTERISTICS (INTERNAL METHODS)

• Solids content	65% ± 1	70% ± 1
• Solvent	Xylene	Methoxypropylacetate
• Acid value, on solid	20 - 27 mgKOH/g	20 - 27 mgKOH/g
• GARDNER Viscosity at 25°C	Z - Z <sub>2</sub>	Z <sub>2</sub> - Z <sub>4</sub>
• Hydroxyl value, on solid	155 ± 5 mgKOH/g	155 ± 5 mgKOH/g
• % of hydroxyl content, on solid	4.7 ± 0.2	4.7 ± 0.2
• Gardner colour	max. 3	max. 3

### CROSS-LINKING

For a complete cross-linking of 100g of FTALON TN the following are required:

	65%	70%
• URONAL P 75 N.ST. (*)	59 g	63 g
• URONAL RA 50/50 ABT (*)	96 g	103 g
• URONAL B 55/50 ABT (*)	98 g	107 g
• URONAL KL (*)	73 g	79 g
• URONAL NL (*)	46 g	49 g
• URONAL NL 100 (*)	31 g	37 g
• URONAL KFL (*)	73 g	79 g

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### APPLICATIONS

FTALON TN is a polyol with a good flexibility and its OH groups react at room temperature and at 45°-50°C; this resin offers high cross-linking speed with all isocyanates, but is particularly suitable for cross-linking with aliphatic isocyanates. Films obtained offer fast hardening properties, excellent colour retention and chalking resistance. According to its characteristics, FTALON TN is specially formulated to be used for car refinishing enamels, where dust free and touch free time are very important factors. FTALON TN offers good compatibility with acrylic hydroxylated resins (i.e. INNOCRYL AP1) so that we suggest to use in ratio 1/1 on solid for applications in acrylic-polyurethane enamels. In relation to the use of the acrylic resin alone, the following will be obtained: improvement of film hardening speed in depth, and this characteristic will be particularly noted in metallized systems and with different layers of glossy coatings; improvement of scratch resistance; improvement of adhesion to basecoats and to the metal; possibility to prepare pigment dispersions directly with FTALON TN and in this way this operation time will be reduced; the use of the pigments pastes, in FTALON TN, even for nitro and stoving enamels. These enamels have excellent characteristics of film resistance for outdoor, glossy retention, yellowing resistance. FTALON TN has excellent characteristics of resistance and according to this properties, this resin is suitable for marine applications.

THE INFORMATION CONTAINED HEREIN IS BASED ON OUR CURRENT KNOWLEDGE AND EXPERIENCE BUT IS SUPPLIED WITHOUT GUARANTEE

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## FORMULATION EXAMPLES

### Enamel for industrial automotives

#### 1st Component

FTALON TN/65 X	56.0
RUTILE TITANIUM DIOXYDE	29.0
BUTYL ACETATE	6.0
PMA	3.0
VERTOXAN VSE N.ST.,tix paste (*)	5.0
MITTEL 6755,slip agent (*)	1.0
	<hr/>
	100.0

#### 2nd Component at 50% (2 : 1)

URONAL NL (*)	50.0
BUTYL ACETATE	50.0
	<hr/>
	100.0
<u>or</u>	
URONAL NL (*)	45.0
URONAL KL (*)	7.0
BUTYL ACETATE	48.0
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	100.0

### Characteristics:

- Dust free time 20' - 30'
- Touch free time 60'
- Complete hardening 6 h
- Oversprayable after 6 hours Excellent
- Yellowing resistance after 12 months Very good
- Chalking resistance after 12 months Good

### Orange peel enamel by roller and by brushing

#### 1st Component

FTALON TN/70 PMA	42.0
KAOLIN	10.0
BENTONE 34	8.0
RUTILE TITANIUM DIOXYDE	30.0
MITTEL 6714,slip agent (*)	1.0
PMA	9.0
	<hr/>
	100.0

#### 2nd Component at 50% (2:1)

URONAL NL (*)	40.0
BUTYL ACETATE	60.0
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	100.0

### Matt white enamel for boats by roller and by brushing

#### 1st Component

FTALON TN/70 PMA	45.0
RUTILE TITANIUM DIOXYDE	34.0
RASTAL NPF, matting agent (*)	20.0
MITTEL 6755,slip agent (*)	1.0
	<hr/>
	100.0

#### 2nd Component at 50% (2:1)

URONAL KL (*)	35.0
PMA	65.0
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	100.0

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## Glossy white enamel for boats by roller or by brushing

1st Component		2nd Component at 50% (2:1)	
FTALON TN/70 PMA	49.0	URONAL NL (*)	40.0
VERTOXAN VSE N.ST. (*)	3.0	URONAL KL (*)	10.0
RUTILE TITANIUM DIOXYDE	35.0	PMA	50.0
PMA	12.0		
MITTEL 6755, slip agent (*)	1.0		
	<hr/>		<hr/>
	100.0		100.0

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### COMPATIBILITY

FTALON TN is compatible with the FTALON and INNOCRYL range, with nitrocellulose, with urea and melamine resins, with castor oil and with a wide number of hydroxylated acrylics. It is not compatible with TETRALON MW .

### SOLUBILITY

FTALON TN is soluble with acetates, ketones, aromatic solvents. It is not soluble with aliphatic solvents.

### SAFETY AND WAREHOUSING

For all information related to handling and toxicological knowledge about this resin, please refer to the Safety Data Sheet.

FTALON TN, if stored in original sealed container, in protected area, has a shelf life of 12 months, from the production date.

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