EXCELLUBE EC10 Data Sheet

Product Description

Excellube EC10 is a cathodic electrophoretically depositable polyurethane paint system. The cured coating of which incorporates a consistent percentage of PTFE (Poly Tetra Fluoro Ethylene). It is designed to provide a conformal black coating onto suitably treated construction metals for the purpose of corrosion protection and friction control – the latter being useful for anti-blocking, anti-squeak applications and abrasion wear resistance. The PTFE content is in the form of a powder with particle size up to about 12µm diameter. The polyurethane resin carrier is a low temperature cure system.

Performance

(NOTE: Described performance and corrosion resistance refers to 252B787 coated at 15-20µm film thickness onto cold rolled mild steel panels, which were subject to cleaning and pre-treatment with a suitable anti-corrosive system)

Given suitable substrate pretreatment, as described; the following, typical performance characteristics can be achieved;

Film Thickness	ISO 2808:2007 Method 7D	15-20µm
Adhesion	ISO 2409:2013	Classification 1
60° Gloss	ISO 2813:1994	85-95 GU*
Pencil Hardness	ASTM 3363 92A	>6H
Acetone Double Rub Resistance	ASTM D5402-06	>500

*Gloss may alter according to film thickness and substrate surface topography

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Corrosion Resistance:

Typical performance after 500 hours exposure by ASTM B117 (Neutral Salt Spray) with respect to degree of corrosion around a scribe, has been recorded as;

ISO 4628 (ISO 4628-8:2005) Corrosion Grade 2 (Slight)

The frictional and performance characteristics of the properly applied and cured coating depend upon the contact materials and conditions of use. The user should satisfy itself by representative testing that the coating will meet its requirements. Factors such as humidity resistance and corrosion protection are essentially independent of the frictional characteristics and depend significantly upon the nature of the base metal and its preparation.

Covering Power:

Covering power factor = 504. Divide this by the applied thickness to return the coverage in m^2/kg of supplied product.

Regulatory Information

For automotive applications the weight composition data of the applied coating for IMDS purposes is as follows:

Carbon black	CAS# 1333-86-4	2.5%
Polytetrafluoroethylene	CAS# 9002-84-0	7.5%
Crosslinked Polyurethane – designated PUR-X per ISO 1043-1		Balance to 100%

There are no reportable substances according to ELV, RoHS or GADSL. All materials used in the paint preparation and its precursors are either exempt or registered according to REACH and are TSCA listed.