

CV 117 hydraulic fluid-resistant polyurethane lacquer

Description

CV 117 (formerly F273-986) is a two-pack, ambient curing, blue tinted, polyurethane lacquer with a high degree of cross-linking to give maximum chemical and fluid resistance. Fully cured CV 117 is designed to give added protection to paint schemes (polyurethane and epoxy) on interior areas of aircraft structure where severe contamination by phosphate ester based hydraulic fluids is likely. It will also give improved gloss retention and resistance to chalking and bronzing.

CV 117 is approved to the following specification: BACM 335A

For further information on product specification requirements, please contact PRC-DeSoto International.

Application properties (typical)

(At 23°C, 75%RH unless otherwise stated)

Product code numbers	
Base	CV 117
Activator	ACT 34
Thinner	T 74
Flash points (Abel closed cup)	
CV 117	-5°C
ACT 34	20°C
T 74	-7°C
Volatile organic compound (VOC), mixed ready for use (ASTM-D 3960)	
	470-570 g/litre
Mix ratio, by volume	
Base:activator:thinner	2:1:to visc.
Viscosity	
Conventional spray (15-24°C)	
BSB3	26-30 seconds
AFNOR 4	16-17 seconds
DIN 4	12-14 seconds
Airless spray	
BSB3	35-40 seconds
AFNOR 4	21-23 seconds

DIN 4	16-17 seconds
Conventional spray (25-35°C)	
BSB3	24-26 seconds
Coverage, mixed ready for use, theoretical value, no loss	
@ 25-30 microns film thickness	11-15 m ² /litre
Pot life	6 hours
Dry to mask	6 hours
Dry to overcoat	Any time
Dry to overcoat with flattening	6 hours
Full cure	4 days

CV 117 is compatible with all types of spray equipment. For details on the application parameters please call PRC-DeSoto International.

Colour	Blue tint
--------	-----------

Performance properties (typical)

When tested with CA 40000 over sulpho-chromic pickle pre-treatment CV 117 will pass or exceed the requirements of BACM 335A e.g.:

Dry adhesion	
Cross hatch (ISO 2409)	Grade O
Flexibility	
Mandrel @ 23°C (ISO 1519)	2 mm
Water resistance	
336 hours @ 23°C (ISO 1521)	
Cross hatch (ISO 2409)	Grade 1
Resistance to fluids	
Phosphate ester (Type IV)	
1000 hours @ 70°C (ISO 2812)	
Scratch hardness (ISO 1518)	1200 g
Corrosion resistance, creep	
Alternating immersion	
1500 hours (EN 3212)	1.25 mm

Note: The application and performance property values above are typical for the material but are not intended for use in specifications or for acceptance inspection criteria because of variations in testing

DeSoto® Aerospace Coatings

PRC-DeSoto Europe, Ltd.
 Darlington Road, Shildon
 County Durham
 DL4 2QP, England
 Tel +44(0)1388 772541 Fax +44(0)1388 774373
 email info.europe@prc-desoto.com

Date issued: 9/99

Supersedes: 2/99

A PPG Industries Company

CV 117 hydraulic fluid-resistant polyurethane lacquer

methods, conditions and configurations.

Storage life

The storage life of CV 117 is twenty four months from date of manufacture when stored at temperatures between 5°C and 35°C in the original unopened containers. Partly used containers must be re-sealed immediately after use. Once opened, activator ACT 34 must be used within two months.

Health precautions

This product is safe to use and apply when recommended precautions are observed. Before using this product read and understand the Material Safety Data Sheet which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. An MSDS is available on request. Avoid over exposure. Obtain medical care in case of extreme exposure.

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and assumes all risks and liability resulting from his use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.