

technical data

EC 75 epoxy finish

Description

EC 75 is a two-pack, ambient curing, epoxy finish possessing good adhesion and high chemical resistance. This combination of properties makes it an ideal topcoat to enhance the protection of either epoxy or polyurethane primers used on the internal structure of aircraft by providing an easily cleaned finishing coat which has high resistance to aircraft fluids, including phosphate ester hydraulic fluids. For details of suitable primers please consult the EC 75 Scheme Sheets.

EC 75 is approved to the following specification:
DEF STAN 80-161/1

Application properties (typical)

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

Product code numbers

Base	EC 75/---
Activator (full gloss)	ACT 65
Activator (semi gloss)	ACT 66
Activator (eggshell)	ACT 67
Activator (matt)	ACT 68
Activator (full gloss - brushing)	ACT 69
Thinner	T 17

Flash points (Abel closed cup)

EC 75	-4°C
ACT 65	23°C
ACT 66	23°C
ACT 67	23°C
ACT 68	23°C
ACT 69	23°C
T 17	16°C

Volatile organic compound (VOC), mixed ready for use

(ASTM-D 3960)

Spraying	>445 g/litre
Brushing	>510 g/litre

Mixing ratio, by volume

Base:activator:thinner

with ACT 65	1:1:0.33
with ACT 66	1:1:0.33
with ACT 67	1:1:0.33
with ACT 68	1:1:0.33
with ACT 69	2:1

Viscosity

BS B3	30-35 seconds
BS B4	18-21 seconds
ISO 3mm	55-70 seconds

Coverage, mixed ready for use, theoretical value, no loss

@ 50 microns film thickness 9 m²/litre

Pot life 8 hours

Dry to mask 6-8 hours

Force drying

@ 70°C 3 hours

@ 120°C 45 minutes

@ 150°C 30 minutes

Dry to fly 48 hours

Full cure 7 days

EC 75 is compatible with all types of spray equipment. For details on the application parameters please consult the EC 75 Scheme Sheets or call PRC-DeSoto International.

Colours Wide range

Performance properties (typical)

When tested with PR 143 over sulphochromic pickle pre-treatment EC 75 will perform as follows:

Flexibility

Mandrel @ 0°C (ISO 1519) ≤ 9 mm

Water resistance

24 hours @ 23°C (ISO 1521)

Scratch hardness, (ISO 1518) 1200 g

Resistance to fluids

Synthetic lubricating oil

1000 hours @ 70°C (ISO 2812)

Scratch hardness (ISO 1518) 1200g

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 methods, conditions and configurations.

Storage life

The storage life of EC 75 is twenty four months 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 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 overexposure. Obtain medical care in case of extreme exposure.

All recommendations, statements and technical data contained herein are based on tests we reasonably believe to be reliable and correct, but the accuracy and completeness of such tests are not guaranteed and are not to be construed as a warranty, either express or implied. The User shall rely on its own information and tests to determine the suitability of any product for its intended use and the User agrees to assume all risks and liability arising in relation to its use of such product (other than death or injury resulting from our negligence) and accordingly we shall not assume any such risks or liability unless we specifically agree to the contrary in writing. If we specifically agree to assume any such risks or liability then (except for death or injury resulting from our negligence) our sole responsibility if any product supplied to the User by us is defective shall be to replace that portion of such product which is defective. Recommendations or statements other than those specifically agreed in writing by us shall not be legally binding on us.

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