PRIMER P60-A COATINGS FOR AIRCRAFT STRUCTURE PROTECTION

AkzoNobel



Strontium chromate-based, three-component water-reducible epoxy primer, with high chemical resistance. This product is designed for the protection of metallic structures on aircraft. P60-A primer is recommended for use in combination with Mapaero F70-A structural topcoat.



Base P 60-A Hardener / Catalyst P 60-A Thinner Demineralised water



Qualified in accordance with :

Airbus: AIMS 04-04-001, AIMS 04-04-003, AIMS 04-04-004, AIMS 04-04-038, AIMS 04-04-040, AIMS 04-04-041, AIMS 04-04-042, AIMS 04-04-063, AIMS 04-04-064. ABP 4-1123, ASNA 5147, PQ N° 10050-230-01, CML 16-063, A2MS 565-001 Gr B Cat 1&2, Ty I, IPS 04-04-038-07 Bombardier: BAMS 565-001 Grade B Category 1, Type I & Category 2, Type I Dassault: DGQT 1.7.0.0120 Embraer: MEP 10-059 Type III Viking: VAMS 565-001 Grade B Category 1, Type I & Category 2, Type I Product information mentioned in the technical datasheet is given for information purposes and can differ from requirements of specifications above. In

Physical properties

THEORETICAL COVERAGE

37 m²/l (1500 ft²/gal) for 15 µm (0.6 mils) dry (base and not diluted hardener)

that case, customer requirements are valid for your application.

DRY FILM WEIGHT

VOC

160 g/l (IS011890-1) and 340 g/l (ASTM D3960)

COLOR RAL6021 Green

SHELF LIFE / STORAGE

18 months for the base and hardener, stored between 5°C and 35°C (41°F and 95°F) in full and sealed original packaging. 12 months in Touch-Up Kits, stored between 5°C and 35°C (41°F and 95°F) in full and sealed original packaging.

GLOSS LEVEL 20 GU at 60°

NOTES

Gloss levels have been determined using glossmeter with an angle of incidence of 60°. The theorical consumption value doesn't take into account the transfer efficiency for spray application.



P60-A primer is used particularly on aluminium alloys that have had the following treatments: Alodine 1200: Cr6 conversion CAA: Chromic Acid Anodising SAA: Sulphuric Acid Anodising TSA: Tartaric Sulphuric Anodising BAA: Boric Acid Anodising

Observe the recoating time between the surface treatment and painting. This may vary depending on the treatment and industrial instructions.

Contact us for information on uses on other metallic structures, surface treatments or paints. P60-A primer can also be used on sealants.

All recommendations mentioned above are given for information.

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Instructions for use

SPRAY APPLICATION

MIXING RATIO

	Mixing ratio by weight	Mixing ratio by volume
Base	100	2 V
Hardener / Catalyst	38	1 V
Water	65 to 130	2 V to 4V

MIXING PROCEDURE

Ideally, the unmixed products should be stored between 18°C and 25°C (64°F and 77°F) for 24 hours before use. The P60-A base should be mixed for 10 minutes in a pneumatic or oscillating mixer before use. Mix the base and hardener until the mixture is homogenous before adding demineralised water in two stages. The mixture must be made at a temperature between 15°C and 35°C (59°F and 95 °F). Sieve the paint through a 120-150 μ m (4.7-5.9 mils) filter. Never add additional water once the paint mixture has been made.

INDUCTION TIME

None

INITIAL SPRAYING VISCOSITY

The equipment used for application can determine the desired dilution. The list below is a guide to the optimum viscosity for various types of equipment.

Air gun	18+/-3 sCA4
Electrostatic spray gun	18+/-3 sCA4
Pressurised pot	21+/-3 sCA4
Automatic Pump	21+/-3 sCA4
Mixing machine	23+/-3 sCA4

Spraying viscosity at 20°C / 68°F

Cup CA4	IS04	Zahn2
27	65	44
19	38	23
18	26	23
16	24	20
14	20	18
	27 19 18 16	27 65 19 38 18 26 16 24

Viscosity values are given \pm 3sec for CA4 Cup and \pm 4sec for the others.

POT LIFE

8 hours for a 4 V dilution

NOTE

Pot life depends on the dilution ratio. The paint viscosity may vary depending on the temperature and increases over the pot life. The water used to dilute the paint should be demineralised with a conductivity $< 25 \ \mu$ Siemens.

Depending on the material used and the application temperature, the dilution may vary between 2 V and 4 V of demineralised water.

Viscosities mentioned above are corresponding to the recommended range of viscosity to ensure compliant application. The range of dilution must be used to adjust viscosity to reach the recommended one. Water based paints show a thixotropic behaviour. This implies that efflux time can vary according different parameters such as: type of mixing, mixing

quantity, dilution, temperature, time between mixing and viscosity measurement ISO 4 cup is the reference cup. The others are given for information.

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BRUSH APPLICATION

	Mixing ratio by weight	Mixing ratio by volume
Base	100	2V
Hardener / Catalyst	38	1V
Water	0 or 35 to 50	0 V or 1 V to 1.5 V

MIXING PROCEDURE

Remove the safety ring and press down on the cap to release the P60-A hardener. Shake the container for approximately 1 minute. Remove the cap to be able to apply the P60-A primer with a suitable brush.

If the material after shaking of 1 Min. is not homogenious please use a stick for further mixing (around 1 Min.) until the material is homogen.









Do not hermetically close TUK after mixing base and hardener. INDUCTION TIME

When diluting, wait 3 minutes before adding demineralised water.

POT LIFE 2 hours not diluted



CONDITIONS Temperature 15°C to 35°C (59°F to 95°F) Relative humidity 20% to 85%

EQUIPMENT

Gravity compressed air gun Nozzle 0.8 to 1.8 mm Electrostatic spray gun Nozzle 0.8 to 1.4 mm

DRY / WET FILM THICKNESS

15 to 25 μ m (0.6 to 1 mils) dry / 50 to 80 μ m (2 to 3.1 mils) wet for 3V dilution.

NUMBER OF COATS

Apply several coats to achieve 15 to 25 μ m (0.6 to 1 mils) dry thickness. The number of coats depends on the size and the shape of the part to which it is being applied. The recommended dynamic air pressure is 1.5 bar to 4 bar (22 to 58 psi).

EQUIPMENT CLEANING

Clean the equipment with a suitable cleaning solvent such as Mapaero D760. Mapaero D770-B aqueous cleaning solvent can also be used for cleaning the ready-to-use mixture.

NOTE

Spray with dry, oil-free air.

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Drying times	23°C (73°F)60°C (140°F)80°C (176°F)Dust free10 minutes5 minutesNot ApplicableDry to handle35 minutes15 minutes5 minutesDry to tape1 hour 45 minutes30 minutes15 minutesDry to sand1 hour30 minutes15 minutesBrecoatable15 minutes to 1205 minutes to 25 to 35 minutesFully Cured3 days2 hours35 minutes				
	NOTE "Wet on Wet" application: P60-A / F70-A system can be used wet on wet. At room temperature, leave P60-A primer flash off for 15 minutes in the spray booth and then recover with F70-A topcoat.				
	MEK resistance: After 23 hours at room temperature or 1 hour at 60°C, P60-A primer can be cleaned with MEK solvent.				
	Before accelerated drying 70°C, leave to flash off for at least 15 minutes at room temperature. Recoating P60-A primer with another topcoat (Epoxy or Polyurethane) is possible. For process optimization, please contact us. Drying P60-A primer with Infra Red is possible. For process optimization, please contact us. Drying times have been determined using test pieces of a thickness < 2 mm and for 15 µm (0.6 mils) of dry film. *N.A. : Not applicable				
Defects & corrections	In the event of a defect, contact your Quality Department. In case of low thickness: Apply a thin coat of P60-A to achieve the required thickness. If the above recommended recoating time is exceeded, reactivate with an abrasive pad. For thick coats: Contact your Quality Department. If there are micro-bubbles, running, rejects or numerous inclusions: Reactivate the surface using a abrasive paper (grade 220 to 320), remove the dust then clean the surface using an approved cleaning product. Apply a thin coat of P60-A to achieve the required thickness.				
	If there are significant defects: Remove the P60-A primer with an approved chemical paint remover or remove using a plastic medium (in this case, the surface treatment has to be repeated).				
Health & Safety	See the product Safety Data Sheet. The MSDS are available through our website www.mapaero.com				
Packing	P60-A base is available in 4 liters and 200 liters containers. P60-A hardener is available in 2 liters and 200 liters containers. P60-A kits are also available: - 4 liters kits: 1.2 I P60-A Base + 0.6 I P60-A Hardener; - 45 ml Touch-Up Kits (TUK) (30 ml P60-A Base + 15 ml P60-A Hardener); - 12 ml Mini Touch-Up Kits (Mini TUK) (8 ml P60-A Base + 4 ml P60-A Hardener).				

WARRANTY : We guarantee our products against hidden defaults over material and preparation. Our Responsibility is limited to the obligation of freely replacing the defective material without there being a claim for any compensation. The advice we give is based on our experience but it might not be absolutely right. Consequently this does not imply our responsibility in case of inefficiency. Furthermore our company cannot be responsible for any material or corporal damages caused due to a misuse or mishandling of our products. Any concession to these clauses, to be valid, must be an official document issued by our offices and signed by our direction.