

RISK ASSESSMENT METHOD STATEMENT

Assessment No.	RAMS 010 v1
Author	Dr Eric Hoang (Director/Artist)
Date	09/07/23
Task Description	Painting Ian Curtis mural using a mobile articulated boom lift
Site Location	Star & Garter, 18-20 Fairfield St, Manchester M1 2QF
Task Duration	4 th September 2023 to 8 th September 2023 (TBC)

Important note about risk assessment

Risk assessment is a dynamic and ongoing planning tool. As such, this is a working document, accurate at time of writing and subject to change. In particular at this time, Government guidance and legislation following the COVID-19 pandemic is emerging week-by-week. This guidance is promptly and carefully scrutinized and changes to plans and assessments will follow to comply.

The primary purpose of this assessment is to ensure that, as far as is reasonably practicable, the artist, staff and members of the public are kept safe during the mural production. All identified risks will be thoroughly monitored throughout the mural production, and where necessary, further action taken.

1. METHOD STATEMENT

This section gives details of the Generic Safe System of Work to be followed for paint a mural on the gable end wall of the Star & Garter (16 m x 6 m) using a Mobile Elevated Working Platform (MEWP). The wall is located on the side of the Star & Garter (18-20 Fairfield St, Manchester M1 2QF) and shown in Appendix A.

Emergency procedures: Local evacuation procedures apply. No smoking at all times. If a serious accident happens, dial 999 and request an ambulance.

Working Area:

- The MEWP to be used will be a mobile articulated boom lift (specifications shown in Appendix B), which will be operated from within the parking compound owned by Depot Mayfield. The MEWP will be positioned on the side of the wall during the mural production as shown in Figure 1.



Figure 1. Side of wall

- The area around the MEWP shall be cordoned off with Chapter 8 safety road barriers with appropriate signage (to be provided by Depot Mayfield) to protect personnel.
- A banksman will remain on the ground during the mural production to ensure safe operation of the MEWP in order to protect personnel accessing the car park; the Banksman will also be able to operate the MEWP from the ground in the event of an emergency.
- The MEWP will remain parked within the parking compound overnight.

Sequence of work:

- The artist will drive his vehicle into the parking compound upon arrival and park there.
- The artist will unload his painting materials from his boot onto a platform trolley and move them near the working area.
- All materials kept on the ground will be stored neatly away from the MEWP in a non-obstructing manner to prevent any trip hazards.
- The artist will bring only the necessary materials needed to paint the mural onto the MEWP basket to ensure it is not overloaded.
- The artist will then paint the mural whilst the banksman will stay on the ground to look out for the materials kept on the ground and ensure personnel do not access the cordoned area.
- When the painting session is completed for the day (i.e. around 4pm), the artist and banksman will clear up the worksite area to ensure it is left clean.
- The artist will drive the MEWP with help of the banksman to a designated location within the parking compound for overnight storage. The chapter 8 barriers will be kept around the MEWP.

Materials:

- Black masonry paint (Sandtex Retail Microseal Ultra Smooth Masonry Paint) will be used to paint the black background color – Specs in Appendix C
- The portrait will be painted using spray paint (Montana Colors MTN 94) – Specs in Appendix D
- All empty spraycans will be disposed off in a suitable recycle bin for metals

2. RISK ASSESSMENT

A risk assessment was carried out on the above task. A scoring system was used to highlight the Hazard Rating. Hazard Rating is calculated using values from the following matrix.

Consequence	Fatality	5	5	10	15	20	25
	Long Term Serious Injury/Illness	4	4	8	12	16	20
	Lost Time Injury/Illness	3	3	6	9	12	15
	First Aid Injury	2	2	4	6	8	10
	Minor injury	1	1	2	3	4	5
			1	2	3	4	5
			Very unlikely	Unlikely	Possible	Likely	Almost Certain
			Likelihood				

Hazard Rating	
Rating	Category
1 – 2	Negligible Risk
3 – 4	Low Risk
5 – 10	Medium Risk
11 – 15	High Risk
16 - 25	Unacceptable Risk

Hazard	Slips, trips and falls			
Person at risk	Artist Banksman Personnel			
Equipment Used	Painting materials.			
Control Measures	Visual check of the working area and any routes prior to start each day. Keep working area tidy and free of litter. Be aware of slippery surfaces. Cordon off working area with Chapter 8 barriers. Safety shoes.			
Hazard Rating	Likelihood	Consequence	Hazard Rating	Rating Colour
	2	3	6	Medium Risk

Hazard	Working at height using a mobile articulated boom lift
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Person at risk	Artist			
Equipment Used	Mobile articulated boom lift			
Control Measures	IPAF 3a/3b certificate. Working at Height training. Daily inspection and checks of MEWP. Safety helmet with chin strap to protect against overhead structures. Safety shoes. High visible vest. Identify potential hazards near work area and routes. Safety harness.			
Hazard Rating	Likelihood	Consequence	Hazard Rating	Rating Colour
	2	5	10	Medium Risk

Hazard	Fall from height			
Person at risk	Artist			
Equipment Used	Mobile articulated boom lift			
Control Measures	Working at Height training. Safety helmet with chin strap. Ensure basket is kept tidy during use. Do not work at height if high winds (>12.5 m/s / 28 mph) – use anemometer to check wind speed.			
Hazard Rating	Likelihood	Consequence	Hazard Rating	Rating Colour
	2	5	10	Medium Risk

Hazard	Falling objects from height			
Person at risk	Personnel Members of the public Banksman			
Equipment Used	Mobile articulated boom lift Spraycans, ipad mini, mobile phone			
Control Measures	Safety helmet with chin strap. Safety shoes. Basket tidy and not overloaded. All materials secured in bags when not in use. Cordon off working area with Chapter 8 barriers.			
Hazard Rating	Likelihood	Consequence	Hazard Rating	Rating Colour
	2	2	4	Low Risk

Hazard	Collision whilst moving mobile articulated boom lift
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Person at risk	Personnel			
Equipment Used	Mobile articulated boom lift			
Control Measures	Walk route to look for potential hazards prior to drive MEWP. Good communication and coordination between artist and banksman. Working area cordoned off with Chapter 8 barriers. High-visible vest.			
Hazard Rating	Likelihood	Consequence	Hazard Rating	Rating Colour
	2	5	10	Medium Risk

Hazard	Musculoskeletal Disorder (MDS) during Manual Handling of materials			
Person at risk	Artist Banksman			
Equipment Used	Small/light individual painting materials stored in various bags. Black masonry paint (5L, 6.25kg)			
Control Measures	Walk route to look for potential hazards (slippery floor, uneven ground conditions, slope). Manual handling training. Split loads into lighter loads when loading/unloading from car boot and access tower platform. Two persons available for loading/unloading. Use platform trolley as handling aid to move materials. Safety shoes.			
Hazard Rating	Likelihood	Consequence	Hazard Rating	Rating Colour
	2	4	8	Medium Risk

Hazard	Skin irritation, Eye irritation, Inhalation from paint			
Person at risk	Artist			
Equipment Used	Spraycans Masonry paint			
Control Measures	PPE: • Half-mask respirator (A2 organic filter + P3 Particulate filter) • Eye protection • Disposable chemical resistant nitrile gloves • Safety helmet COSHH assessment.			
Hazard Rating	Likelihood	Consequence	Hazard Rating	Rating Colour
	2	3	6	Medium Risk

Hazard	Fatigue			
Person at risk	Artist			

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	Banksman			
Equipment Used	Mobile articulated boom lift			
Control Measures	Take regular breaks/welfare facilities. Do not work at height if fatigued.			
Hazard Rating	Likelihood	Consequence	Hazard Rating	Rating Colour
	2	5	10	Medium Risk

3. COVID ASSESSMENT

Hazard	COVID			
Person at risk	Artist Banksman Personnel			
Control Measures	Artist will work in area unavailable to members of the public. Artist will wear a mask (A2 organic filter + P3 particulate filter) and protective equipment (nitrile gloves, safety shoes) in order to carry out the work.			
Hazard Rating	Likelihood	Consequence	Hazard Rating	Rating Colour
	2	5	10	Medium Risk

Hazard	COVID Symptoms			
Person at risk	Artist			
Control Measures	If the artist feels unwell, they should stay at home and suspend the work until they return to full health. If the artist develops symptoms whilst at work, they should isolate themselves immediately and either stay in isolation until medical assistance can be brought to them (if required) or safely leave the site altogether. Inform people they've been in close contact within the past 48 hours that they have coronavirus symptoms. Advise all parties as soon as possible if artwork production activity needs to be suspended.			
Hazard Rating	Likelihood	Consequence	Hazard Rating	Rating Colour
	2	5	10	Medium Risk

Hazard	Cross contamination			
Person at risk	Artist Banksman			

Control Measures	Artist to bring own equipment and supplies, avoid sharing tools and equipment and keep them out of reach of those passing by. Artist using disposable nitrile gloves.			
Hazard Rating	Likelihood	Consequence	Hazard Rating	Rating Colour
	2	4	8	Medium Risk

Hazard	Social distancing			
Person at risk	Artist Banksman Personnel			
Control Measures	Artist will comply with COVID-19 regulations. Artist will work at height most of the time away from the public. Social distancing of 2m as standard.			
Hazard Rating	Likelihood	Consequence	Hazard Rating	Rating Colour
	2	5	10	Medium Risk

Hazard	Hygiene			
Person at risk	Artist			
Control Measures	Frequent handwashing with soap (20 seconds minimum) or hand gel, especially before and after eating, drinking or using the toilet. Artist to come with own hand gel.			
Hazard Rating	Likelihood	Consequence	Hazard Rating	Rating Colour
	2	2	4	Low Risk

4. RAMS REGISTER

This risk assessment has been read and understood by the following named persons.

Name	Signature	Date
Eric HOANG		
Alex CULLEN		

5. KEY CONTACTS

Company	U & I
Role	Estates Manager
Name	Danny Williams
Phone Number	07776 590 076
Comments	

Company	Broadwick Live
Role	Venue Development Manager
Name	Beck Rowaichi
Phone Number	07870798675
Comments	

Company	Headstock
Role	Founder
Name	Atheer Al-Salim
Phone Number	07766106390
Comments	

Company	-
Role	Banksman
Name	Alex Cullen
Phone Number	07851579120
Comments	

APPENDIX A - Wall

	View from road	View from within Depot Mayfield parking compound
Wall		
Agreed Design		

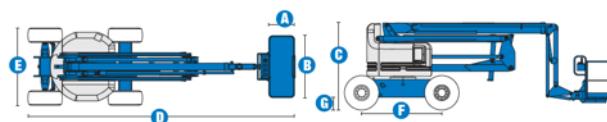
APPENDIX B – Mobile Articulated Boom Lift Specifications

SELF-PROPELLED ARTICULATING BOOMS

Z™-60/34



Specifications



MODEL	Z™-60/34	
MEASUREMENTS	Metric	US
Working height maximum*	20.39 m	66 ft 4 in
Platform height maximum	18.39 m	60 ft 4 in
Horizontal reach maximum	11.05 m	36 ft 3 in
Up-and-over clearance maximum	8.23 m	27 ft
A Platform length - 6 ft / 8 ft model	76 cm / 91 cm	2 ft 6 in / 3 ft
B Platform width - 6 ft / 8 ft model	1.83 m / 2.44 m	6 ft / 8 ft
C Height - stowed	2.69 m	8 ft 10 in
D Length - stowed	8.15 m	26 ft 9 in
E Width	2.46 m	8 ft 1 in
F Wheelbase	2.51 m	8 ft 3 in
G Ground clearance - centre	41 cm	1 ft 4 in

PRODUCTIVITY		
Lift capacity	227 kg	500 lbs
Platform rotation	180°	180°
Vertical jib rotation	90°	90°
Turntable rotation	360° continuous	
Turntable tailswing	zero	zero
Drive speed - stowed 2WD - 4WD	4.8 km/h - 5.1 km/h	3.0 mph - 3.2 mph
Drive speed - raised**	30 cm/s	1 ft/s
Lift speed to full height	42 sec	42 sec
Gradeability - 2WD***	25%	25%
Gradeability - 4WD***	40%	40%
Turning radius - inside	2.80 m	9 ft 2 in
Turning radius - outside	5.70 m	18 ft 9 in
Controls	12 V DC proportional	
Tyres	355/65 D625	

POWER		
Power source	Deutz D 2011 L03i 3 cylinder diesel 48 hp (36 kW) Ford DSG-423 4 cylinder petrol/LPG 75 hp (56 kW) Perkins 404C-22 4 cylinder diesel 51 hp (38 kW)	
Auxiliary power unit	12 V DC	12 V DC
Hydraulic tank capacity	170.3 L	45 gal
Fuel tank capacity	75.7 L	20 gal

SOUND & VIBRATION LEVELS		
Sound pressure level (ground workstation)	84 dBA	84 dBA
Sound pressure level (platform workstation)	75 dBA	75 dBA
Vibration	<2.5 m/s ²	<8 ft 2 in/s ²

WEIGHT****		
CE 4WD (air tyres)	10,215 kg	22,520 lbs
CE 4WD (foam filled tyres)	11,231 kg	24,760 lbs
CE Max	11,331 kg	24,980 lbs

STANDARDS COMPLIANCE

EU Machinery Directive 2006/42/EC

EU Standard EN280:2001, A2:2009

EMC Directive 2004/108/EC EN 61000-6-2, EN 61000-6-4

EU Noise Directive 2000/14/EC EN ISO 3744

* The metric equivalent of working height adds 2 m to platform height. U.S. adds 6 ft to platform height.

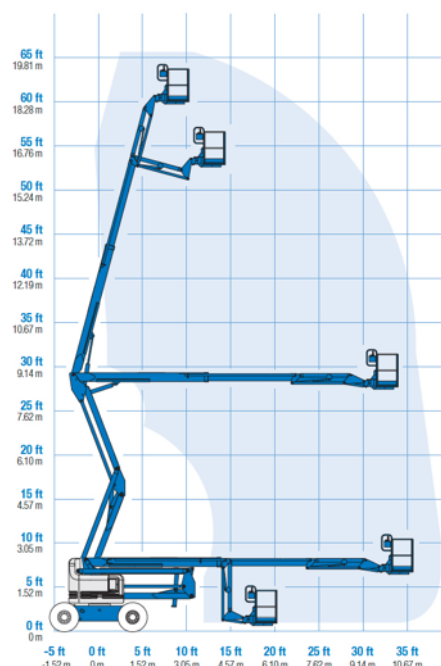
** In lift mode (platform raised), the machine is designed to operate on firm, level surfaces only.

*** Gradeability applies to driving on slopes. See Operator's Manual for details regarding slope ratings.

**** Weight will vary depending on options and/or country standards.

www.genielift.co.uk
www.genielift.me

RANGE OF MOTION Z™-60/34



07/11 Part No. B109364UK



SELF-PROPELLED ARTICULATING BOOMS

ZTM-60/34

Features

EASILY CONFIGURED TO MEET YOUR NEEDS

PLATFORM OPTIONS

- Steel 2.44 m (8 ft) (standard)
- Steel 1.83 m (6 ft)
- 2.44 m (8 ft) tri-entry

JIB

- Standard 1.83 m (6 ft) jib boom

POWER OPTIONS

- Deutz 48 hp (36 kW) diesel
- Ford petrol/LPG 75 hp (56 kW)
- Perkins diesel 51 hp (38 kW)

DRIVE OPTIONS

- 2 x 4
- 4 x 4

AXLE OPTIONS

- Oscillating (standard on 4WD)
- Non-oscillating

TYRE OPTIONS

- Rough terrain air-filled (standard)
- Rough terrain foam-filled
- Rough terrain non marking (air or foam-filled)

STANDARD FEATURES

MEASUREMENTS

- 20.39 m (66 ft 4 in) working height
- 11.05 m (36 ft 3 in) horizontal reach
- 8.23 m (27 ft) up and over clearance
- Up to 227 kg (500 lbs) lift capacity

PRODUCTIVITY

- Self-levelling platform
- Hydraulic platform rotation
- Fully proportional controls
- Thumb rocker steer
- Drive enable
- AC power cord to platform
- Horn
- Hour meter
- Tilt alarm
- Descent alarm
- Alarm package (flashing beacon & travel alarm)
- 360° continuous turntable rotation
- Lockable turntable covers
- Zero tailswing
- Positive traction drive
- Two-speed wheel motors
- Certified load sensor

POWER

- All engines are emission compliant
- 12 V DC auxiliary power
- Engine protection package
- Anti-restart engine protection
- Auto engine fault shutdown
- Air intake pre-cleaner (diesel only)
- Deutz intake air heater



OPTIONS & ACCESSORIES

PRODUCTIVITY

- Platform swing gate
- Half-mesh platform inserts with swing gate*
- Platform top auxiliary rail
- Weld leads to platform (N/A with Deluxe Hostile environment package)
- Hydraulic oil cooler
- Air line to platform
- Power to platform (incl. plug, socket and ground fault interrupt leakage on request)
- Light package: 2 chassis mounted drive lights, 2 platform mounted work lights
- Basic Hostile environment kit: cylinder bellows, boom wiper seals, platform and ground control box cover
- Deluxe Diesel/ Dual-fuel Hostile environment kit (adds to basic kit: center turntable shield, ring gear guard, tail pipe guard, engine cover flaps and air pre-cleaner)
- Low temperature cut-out module
- Fire resistant hydraulic oil
- Biodegradable hydraulic oil
- Aircraft protection kit: platform foam padding & padded disable system**
- Tool tray
- Dual axis joystick steering
- Fluorescent tube caddy***
- Panel cradle package****
- Platform work lights
- Lockable platform control box cover

POWER

- Engine gauge package (oil pressure, temp & amp)
- Engine heater
- AC generator packages (110V/60Hz or 220V/50Hz)
- Cold weather package
- Refinery kit (spark arrestor and electric or mechanical Chalmers valve)
- LPG tank 15.19 kg (33.5 lb) capacity (Ford engine only)

* Not available on tri-entry platforms

** 1.83 m (6 ft) platform only

***Available aftermarket only

****Requires tri-entry platform and foam filled tyres

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APPENDIX C – Specifications for Sandtex Masonry Paint

TECHNICAL DATA SHEET



ULTRA SMOOTH MASONRY PAINT

A high quality, water borne smooth decorative masonry paint for use on most exterior masonry surfaces. Features Microseal technology providing a micro-porous and dirt resistant surface. Offering 15 years of guaranteed long lasting protection against the elements.

AVAILABILITY

Colour Range

Brilliant White, Ashen Green, Beige, Bitter Chocolate, Black, Brick Red, Chalk Hill, Cornish Cream, Country Stone, Ivory Stone, Light Cream, Magnolia, Mid Stone, Oatmeal, Sand Dune, Silver Blue, Somerset Pink, Suffolk, Terracotta.

Packaging

2.5, 5 & 10 litres.

PROPERTIES

Drying Time

Under normal drying conditions touch dry in 2 hours, recoatable after 4 hours. Allow for adequate ventilation during the drying period.

Finish

Satin.

Composition

Pigment: Titanium and Nephylence Syenite.
Binder: VaVeoVa Copolymer.
Solvent: Water.

Spreading Rate

8-12m² per litre on smooth surfaces.

Wet Film Thickness

83 micrometres at 12m² per litre.

Dry Film Thickness

27 micrometres at 12m² per litre.

Volume Solids

32% Brilliant White, other colours will vary.

Flash Point

Not applicable.

VOC Content

EU limit value for this product (cat.A/c): 75 g/l (2007) / 40 g/l (2010) This product contains max. 1 g/l VOC.

Limitations

For interior use only. Do not apply when air or substrate temperatures are likely to fall below 10°C or when the relative humidity is above 80% during application or the drying period.

PREPARATION

New Surfaces

All surfaces must be sound, suitably dry and free from anything that will interfere with the adhesion of the materials to be applied. Surfaces with suction (porous surfaces) should be treated with an application of Sandtex Trade Stabilising Solution.

Previously decorated surfaces

All surfaces must be sound, suitably dry and free from anything that will interfere with the adhesion of the materials to be applied. Remove all loose, and failing or suspect material by scraping or brushing with a stiff bristle brush (not wire) to a sound edge. Organic growth must be removed and the areas treated with Sandtex Trade Fungicide. For surfaces in poor condition mechanical means may be necessary e.g. pressure washing between 1500-2000 psi (102-136 bar), proprietary paint removal system, wet or dry grit blasting. Care must be taken not to damage the underlying surface. Fill cracks and small defects in masonry surfaces with Sandtex Trade Ready Mixed or Exterior Easiplast and finish to match existing. Stabilise all bare, filled and previously decorated chalking areas with an application of Sandtex Trade Stabilising Solution. Wash any soundly adhering gloss painted surfaces with hot water and liquid detergent solution to remove any contaminants frequently changing the water. Wet abrade to provide a key. Rinse thoroughly with clean water to remove all residues.

COATING SYSTEM

Apply two full coats of Sandtex Ultra Smooth Masonry Paint.

APPLICATION

Stir well before use. Apply unthinned using a good quality paint brush or medium pile roller. Apply liberally. Do not exceed the recommended spreading rate.

CLEANING

Return surplus material to container. Wash with clean water immediately after use.

HEALTH AND SAFETY

Please refer to the Safety, Health and Environmental Information on the container. Take special precautions during the surface preparation of pre 1960's painted surfaces as they may contain harmful lead. For further information contact the Crown Customer Relations Team. When preparing all surfaces avoid the inhalation of dust and/or metal particles. Wear a suitable facemask. Material Safety Data Sheets for this and all other Crown Paints products are freely available from the place of purchase or the address below. Store in secure dry conditions inaccessible to children or animals. Containers should be kept closed during storage. Do not empty into drains, watercourses or access routes to septic tanks.

GENERAL INFORMATION

Apply all products in accordance with BS 6150: 2006 Code of practice for painting of buildings and BS 8000 : Part 12 : 1989 Code of practice for decorative wallcoverings and painting. Under normal and frost free conditions this product will remain usable for up to two years if stored correctly and unopened.

Every care is taken to ensure that all information provided on this Technical Data Sheet is accurate. Crown Paints is unable to guarantee results as it has no control over the conditions under which its products are applied.

Before using this product please ensure you have the latest information.
For help or more information contact the Crown Customer Relations Team on:
Tel: 0870 2401127
e-mail: info@crownpaint.co.uk
website: www.crownpaint.co.uk

This information is correct at date of issue Dec 2009.



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Tel: 01254 704951 Fax: 01254 870155
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Website: www.crownpaint.co.uk

APPENDIX D – Specifications for MTN 94 Spray Paint



94

Product information | TECHNICAL DATA SHEET

MTN 94. Solid Colors. Matt paint, low pressure, high coverage and fast drying times.
400 ml, 11 Oz, 312 g.

GENERAL DESCRIPTION

This is a spray paint with a matt finish. It is made with next generation modified alkyd resins and has been developed to meet the highest demands from the graffiti and fine arts market, and is also adaptable to the needs of interior and exterior decoration. Designed and formulated with the highest quality products, with the focus always being on color consistency, fast drying, and without forgetting respect for the user and the environment. Its name is in honor of the year in which the company was founded.

FEATURES

- Low pressure.
- Fast drying.
- Good hardening.
- Excellent flexibility.
- Strong resistance to scratching once the film is polymerized.
- Does not contain lead nor other heavy metals.
- Good covering capability.
- Color durability.
- Easy to apply and repaint.
- Very good resistance to the sun and rain.
- Very good resistance to UV light (see chart).

INSTRUCTIONS FOR USE

- Shake the aerosol well before using, approximately for one minute after hearing the sound of the mixer.
- Apply to clean, dry surfaces. On rusty metallic surfaces remove rust with a wire brush and prepare an anti-rust primer if considered necessary. Apply an anchor layer on plastics and polyesters.
- For best results apply in thin layers. Three thin layers are always better than one thick one, and may be repainted within fifteen minutes with the same paint.
- Turn the aerosol upside down to clean out the valve after use.
- If the nozzle becomes blocked replace it with a new one.
- Never apply to equipment that is plugged in and use in well ventilated areas.
- Request safety datasheets.

PHYSICAL PROPERTIES

Low pressure:	Polyvalent female valve
Propellant:	Butane / Propane / Mix
Type of flant:	Modified alkyd
Color:	See chart
Shine 60° (ASTM D-523 ISO 2813):	15-25% matt
Dry to the touch (ASTM D-1640 ISO 1517):	10'
Completely dry (ASTM D-1640 ISO 1517):	24 h
Thickness of dry layer (ASTM D-823 ISO 2808):	15 micras/layer
Adherence (ASTM D-3359 ISO 2409):	0 B
Theoretical yield (continuous painting):	3 m² for 400 ml
Thinner:	Ethyl acetate
Product life:	(Well Stored) 10 Years
Condition for application:	Minimum room temperature 8°C
	Surface temperature 5°C a 50°C
	Max humidity 85% R.H.P
Heat resistance of paint:	100°C

* All of the adherence tests have been carried out on iron plates.

APPLICATIONS

Due to the product's features we recommend its use in precision jobs and given its matt finish and thus its anti-reflective qualities, we would especially recommend it for photographic and artistic jobs. May also be used in:

- DIY
- Gardening
- Transport
- Fine arts
- Graffiti
- Sign painting
- Plumbing
- Industry
- Muralism

APPEARANCE



LABEL



CAP SYSTEM



CAUTION



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1/3