

Intended use

Mipa Protector black is providing an excellent mechanical and chemical resistance (e.g. truck beds). The excellent filling power enables extremely high-build properties. Easy to apply since 750 ml paint material is already filled in 1,1 litre underbody can. Just add 250 ml of Mipa 2K Hardener MS10 LV. Close the can and shake thoroughly for 2 min. and apply this mixture using the underbody applicator or HVLP (high volume low pressure) gravity gun.

Possible application areas:

- bodies of SUVs and off-road vehicles
- rims of SUVs and off-road vehicles
- floors and storage areas in caravans
- underbodies and chassis
- bullbars, running boards, roof racks, spare wheel covers and so on
- fender well
- access ramps, decks of recovery vehicles and trailers

Properties:

- high UV and weathering resistance
- excellent shock and scratch resistance
- high resistance to fuels and oils
- excellent water resistance
- provides noise reduction
- short-term temperature exposure: 350 °F (180 °C)
- permanent temperature exposure: 300 °F (150 °C)

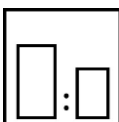
Spreading rate: 128 sq. ft (12 m²) by 8 mil (200 µm) dry film thickness.

Processing instructions



Colour

black



Mixing ratio

hardener

MS Hardeners LV

by volume lacquer :hardener

3 : 1 by volume

Protector Set

750 ml Mipa Protector in 1,1 litre cans for underbody sealants +
250 ml Mipa 2K-Hardener MS 10 LV



Hardener

for complete, very large paintwork

Mipa 2K-Hardener MS 25 or 35 LV possible.

for partial paintwork e.g. truck beds

Mipa 2K-Hardener MS 10 LV

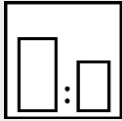


Pot life

45 - 60 min. with Mipa 2K-Hardener MS 10 LV at 70 °F (20 °C)

60 - 80 min. with Mipa 2K-Hardener MS 25 LV at 70 °F (20 °C)

1,5 - 2 hours with Mipa 2K-Hardener MS 35 LV at 70 °F (20 °C)



Mixing procedure for applications with underbody applicator or HVLP gravity equipment

1. Shake Mipa Protector vigorously.
2. Open the can, add 250 ml of hardener, close the lid and shake vigorously for approx. 2 minutes.

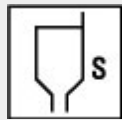
Mixing procedure for applications out of standard quantity.

1. Shake Mipa Protector vigorously.
2. Pour the paint in a mixing cup, add the hardener in a mixing ratio of 3 : 1 by volume and mix thoroughly.
3. If necessary, add the thinner and mix thoroughly again.

More information see below at Application mode.

Thinner

Mipa ZERO VOC Thinners or Acetone.



Spray viscosity

HVLP (low pressure)

See application mode below

Mipa UBS-Flex

undiluted



Application mode

Application mode

**nozzle
(mm)**

dilution

How to apply a rough texture



MP applicator
 UBS Flex

-

-

1. Apply an uniform coat with a pressure setting of 29 - 57 psi (2 - 4 bar) until full coverage is achieved.
2. Observe flash-off time of between 10 - 60 min.
3. To achieve the desired texture reduce the pressure to 14 - 21 psi (1 - 1,5 bar) and increase the spray distance up to approx. 1,5 - 2 ft (45 - 60 cm).

HVLP
 (low pressure)

2,5

10 %

1. Apply an uniform coat with a pressure setting of 29 psi (2 bar) until full coverage is achieved.
2. Observe flash-off time of between 10 - 60 min.
3. To achieve the desired texture reduce the pressure to approx. 14 psi (1 bar) and increase the spray distance to approx. 1,5 - 2 ft.

Application mode

**nozzle
(mm)**

dilution

How to apply a medium texture



MP applicator
 UBS Flex

-

-

1. Apply an uniform coat with a pressure setting of 29 - 57 psi (2 - 4) bar until full coverage is achieved.
2. Observe flash-off time between of 10 - 60 min.
3. To achieve the desired texture reduce the pressure to approx. 29 psi (2 bar) and increase the spray distance to approx. 1,5 - 2 ft.

HVLP
 (low pressure)

2,0 - 2,5

15 %

1. Apply an uniform coat with a pressure setting of 29 psi (2 bar) until full coverage is achieved
2. Observe flash-off time between of 10 - 60 min.
3. To achieve the desired texture reduce the pressure to approx. 21 psi (1,5 bar) increase the spray distance to approx. 1,5 - 2 ft.

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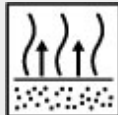
This technical data sheet is supplied for informational purposes only! According to our information, all data and recommendations correspond to the state of art and are based on years of experience in manufacturing our products. They do not exempt the user from his obligation to verify professionally, on his own responsibility, the suitability of our products to the intended purpose under prevailing conditions. Safety data sheets and warnings on packaging must be observed. We reserve the right to modify and to complete the information content at any time, without prior notice or obligation to update.



Application mode	nozzle (mm)	dilution
MP applicator UBS Flex	-	10 %
HVLP (low pressure)	1,6 - 1,8	20 %

How to apply a fine texture

1. Apply an uniform coat with a pressure setting of 29 - 57 psi (2 - 4) bar until full coverage is achieved.
 2. Observe flash-off time of between 10 - 60 min.
 3. To achieve the desired texture, set the pressure to 43 - 56 psi (3 - 4 bar) and increase the spray distance to approx. 3 feet (90 cm).
1. Apply an uniform coat with a pressure setting of 29 psi (2 bar) until full coverage is achieved.
 2. Observe a flash-off time of between 10 - 60 min.
 3. To achieve the desired texture increase the spray distance to approx. 3 feet (90) cm.



Flash-off time

- 5 - 10 min. between coats
- 10 - 15 min. prior to oven drying

Dry film thickness

4 - 12 mil (100 - 350 µm)



Drying time

Object temperature.	dust dry	set to touch	ready for assembly	sandable	recoatable
70 °F (20 °C)	15 - 20 min	3 - 4 h	24 h	--	--
140 °F (60 °C)	--	30 min	1 - 2 h	--	--

Fully cured after 7 days 70 °F (20 °C).

Note

- Storage:** In tightly closed original containers at least 3 years shelf life.
Storage temperature range 50 - 86 °F (10 - 30 °C).
Protect package from direct sunlight and heat.
- VOC Regulation:** VOC as packaged:
less exempt solvents 450 g/l / 3.8 lb/gl
with exempt solvents 494 g/l / 4.15 lb/gl
- VOC as applied:
This product content max. < 420 g/l / 3.5 lbs / gal.
- Always check local VOC laws to ensure that the use of Mipa products is compliant in your area.
- Processing conditions :** from 50 °F (10 °C) and up to 80 % relative air humidity.
Ensure adequate supply and exhaust air ventilation.
- Substrate preparation:** Substrate has to be free from grease and oil.
Dry sand with P120 - P240 grid sand paper, (remove all traces of rust and mill scale) and degrease. For best results bare metal should be treated with a Mipa 1K or 2K Primer.
For hard to reach areas such as internal corners coat first with Mipa 1K Adhesion Promoter 7.0.

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- Application notes:** We recommend to spray a test panel first to ensure the desired texture is achieved.
- To achieve an uniform surface apply Mipa Protector in a sweeping motion.
Play with air pressure and distance to get desired texture.
- Don't apply Mipa Protector directly in the sun. Product temperature: 59 - 79 °F (15 - 26 °C)
- Rolling of Mipa Protector results in a lower build. Mohair or micro fibre rolls are recommended.
Pile height 4 - 9 mm. Don't use foam rolls. Apply Mipa Protector in 2 - 3 layer with a flash off time of 30 min. - 1 hour between coats.
- Do not use Mipa Protector directly on oily, resinous wood like teak, pitchpine, a. s. o.
- Remove all masking tape while final coat is still wet.
- Do not allow Mipa Protector to come in contact with water/rain for at least 3 days.
- Do not place heavy loads on the surface until Mipa Protector is fully cured (within 7 days)
- Mipa Protector can be overcoated without sanding after 8 - 24 with every 1K and 2K paint.
- Tools should be cleaned immediately after using.
- Safety aspect:** For professional use only. Not for sale to or use by the general public. Before opening the packages be sure you understand the warning Messages on the Labels and Safety Data Sheets of all components since the mixture will have the hazards of all of it's parts. The manufacturer recommends the use of an air supplied Respirator when exposed to vapors or spray mist.
- Medical Response:** Emergency Medical or Spill Control Information 011 49(0)70024112112 (MIP)
US Emergency Phone Number (for transportation incidents only) 1-800-535-5053 Infotrac
- Exclusive Importer:** Fleetwood Products
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