

Product Description

Operational Sector : 2K-polyurethane-acryl high performance groundcoat of active anti-corrosion protection and excellent adhesion to steel, zinc and aluminium. Overcoatable with 1K- and 2K- paints. To be applied as adhesion promoter, groundcoat , sanding-filler and DTM (direct to metal) paint. Free of lead and chromate. Wet-on-wet application without sanding is possible up to 3 weeks in mixing ratio of 7:1 /volume.

Specification :

Binder base:	Polyurethane-acryl-system
Solid content:	62 - 66 by weight -%
	46 – 47 by volume
Delivery viscosity:	thixotrope
Spec. weight (DIN 51 757):	1.25 - 1.4 kg / ltr.

Features:

- very good drying properties
- electrostatically applicable
- active anti corrosive protection (zinc phosphate)
- excellent protection against corrosion
- wet-on-wet application without sanding possible up to 3 weeks
- easy sanding in mixing ratio of 4:1 / Vol.

Physical Properties:

- permanent exposure: 300 °F; short term exposure: 350 °F
- adhesion ASTM D4541 tractive power 500 psi
- adhesion test (based on DIN 53 151):
 - steel: Gt 0 (very good); zinc: Gt 0 (very good);
 - aluminium. Gt 0 (very good)
- Humidity Resistance ASTM D4585 750 hours
- Salt Fog Resistance ASTM B117 750 hours
- Abrasion Resistance ASTM D4060 98 mg loss
CS17 wheel, 1000 cycles, 1kg
- Flexibility: ASTM D522, passed 3,2mm 1/8" Test Method B
- Direct Impact ASTM D2794 30 in.

Storage : In tightly closed original containers at least 3 years shelf life
Storage temperature range: 50°F – 85°F (10 - 30 °C)

Use Pro Mix Industry Pigment Pastes to tint PU 100 in oxide yellow, red, blue and green

PU 100 oxide yellow	Max. 10% PMI 050	appr. RAL 1002
PU 100 red	Max. 10% PMI 420	appr. RAL 3031
PU 100 blue	Max. 10% PMI 630	appr. RAL 5012
PU 100 green	Max. 10% PMI 680	green

Ready mix colour shades:

PU 100 off white	1 Gallon	5 Gallon
PU 100 medium grey	1 Gallon	5 Gallon
PU 100 black	1 Gallon	5 Gallon

This data sheet is for information purpose only! To our knowledge the data provided complies with the latest standard and is based on years of experience in the manufacture of our products. However the data is not binding and without warranty. Please follow recommendations stated on the relevant safety data sheet and precautions stated on the product label. We reserve our right to make additions, deletions, or modifications to the information at any time without prior notification.

Mixing ratio: 7:1/vol. (with hardener PU 912-25 LV medium or PU 912-40 LV slow)

For efficient paintings of cars, trucks, industrial vehicles and machines. This mixing ratio combines the advantages of a wet on wet filler, ground filler or adhesion promoter with excellent adhesion to steel, aluminium and galvanized substrates.

Gloss (Din 67530) 20-30% 60°
Pot life: 8 hours / 70°F (20 °C)
VOC <3.5 lbs/gal.

Application Process :	Pressure (psi)	Nozzle mm inch	Spraying Operations	Dilution
Brushing, rolling	-	-	2 - 3	0 - 5 %
HVLP (low pressure)	29 - 44	1.3 - 1.8	1 - 3	5 - 20 %
Airless (33:1)	1450 - 2175	0.28 - 0.33 0.11" - 0.13"	1 - 2	0 - 5 %

Dilution : Mipa 2K ZERO VOC Thinner fast, medium or slow

Mixing Ratio : By volume: 7 : 1

Mixing Procedures : Mix every component thoroughly. Make certain no pigment remains on the bottom of the can. Combine the primer with hardener and thoroughly agitate the mixture with power agitation.

Dry Times	dust dry	set to touch	handle	recoatable
Object temp. 70 °F	15 - 20 min.	40 - 60 min.	3 - 4 h	15min. - 3 weeks
Object temp. 140 °F			30 - 45 min.	

Recoat after 15 min. and possible up to 3 weeks.
By drying times longer than 3 weeks, an intermediate sanding is required.

Theoret. Consumption : (8 - 8,5m²/Ltr. or 325 - 350sq ft/gal. by 2 mil dry coat thickness)

Application Proposal :

- On sharp edges and welds we recommend a mist coat before wet application.
- Object and paint temperature minimum 50 °F (20 °C)

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Mixing ratio: 4:1/vol. with hardener PU 912-25 LV medium or PU 912-40 LV slow

For efficient painting of cars, trucks, industrial vehicles and machines. This mixing ratio combines the advantages of a wet on wet filler, sanding filler or a DTM (direct to metal paint) with excellent corrosion protection. Resistant to weathering, very good chemical and mechanical resistance.
Very easy sanding.

Gloss (Din 67530) 40 - 50 % 60°
Pot life: 3 - 5 hours / 70 °F (20 °C)
VOC <3.5 lbs/gal.

Application Process :	Pressure (psi)	Nozzle mm inch	Spraying Operations	Dilution
Brushing, rolling	-	-	-	-
Air / Flow jar	29 - 44	1.3 - 1.6	2 - 3	5 - 15 %
Airless (33:1)	1450 - 2175	0.28 - 0.33 .011" - .013" (50 - 95 °)	1 - 2	5 - 10 %

Dilution : Mipa 2K ZERO VOC Thinner fast, medium or slow

Mixing Ratio : By volume: 4 : 1

Mixing Procedures: Mix every component thoroughly. Make certain no pigment remains on the bottom of the can. Combine the primer with hardener and thoroughly agitate the mixture with power agitation.

Dry Times	dust dry	set to touch	handle	recoatable
Object temp. 70 °F	10 - 15 min.	2 - 4 h	10 - 12 h	15 min. - 72 h
Object temp. 140 °F			45 min. - 1 h	

Recoat after 15 – 30 min. and latest after 24 hours.
By drying times longer than 24 hours, an intermediate sanding is required.

Theoret. Consumption : (8 - 8,5m²/Ltr. or 325 - 350sq ft/gal. by 2 mil dry coat thickness)

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Special Recommendations

Application Proposal :

2 coat application (for corrosive environment):

Ferrous metal, steel:

Base coat: PU 100 (coat thickness: min. 3 - 4 mil)

Top coat: PU 240 or PU 257 (coat thickness: min. 2 - 3 mil)

Zinc:

Base coat: PU 100 (coat thickness: min. 2 - 3 mil)

Top coat: PU 240 or PU 257 (coat thickness: min. 2 - 3 mil)

Aluminium:

Base coat: PU 100 (coat thickness: min. 2 - 4 mil)

Top coat: PU 240 or 257 (coat thickness: min. 2-3 mil)

DTM (direct to metal):

To assure best anti-corrosion protection apply minimum 4 mil. (100 µm)

- Application Conditions: Minimum paint and substrate temperature 50 °F 10 °C).
- On sharp edges and welds we recommend a mist coat before wet application.
- For faster drying and curing in cold conditions use max. 3% / Vol. Mipa 2K PU Accelerator.
- Electrostatic application sector: 0,04 - 26,3 Mega-Ohm / 3 - 200 Mega-Ohm x cm
- When you tint PU 100 light grey with Pro Mix Industry Pigment Pastes tint the primer with max. 10% and mix the components thoroughly. Agitate the mixture with power agitation or a mechanical shaker.
- If you mix the paint with a measuring stick, use a cylindrical, not a conical can!

Not recommended for immersion service in water and salt water.

Not recommended for use with portable water.

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 its 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)700 24112112 (MIP)
Emergency Telephone Number (for transportation incidents only): 1-800-535-5053 (Infotrac)

General Importer: Mipa USA Inc. 3 American Way, Suite 15, Spotswood, NJ 08884
www.mipa-usa.com. Info@mipa-usa.com 732-416-9590 Phone, 732-416-9592 Fax.

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