

Product description

Operational Sector :	2K-polyurethane-acryl high performance coating suitable for commercial vehicles, facade construction elements and heavily strained machines and constructions. Excellent applications properties such as remarkable hiding power, spreading rate, high gloss stability, chemical and mechanical resistance. Available in high gloss, semi gloss and mat.
Specification :	Binder base: Polyurethan-acryl-system Solid content: 56 - 61 by weight -% 44 - 45 by volume -% Delivery viscosity (DIN 53 211): 140 – 160 s 4mm DIN Spec. weight (DIN EN ISO 2811): 1,1 - 1,40 kg / l
Gloss information:	PU 240 gloss >90 %, semi gloss 50 - 60 %, mat 10 - 20 % (angel 60°)
Features :	<ul style="list-style-type: none">- electrostatically applicable- high UV- and weathering resistance- fast drying- high gloss >90%- excellent chemical and mechanical resistance- scratch proof- short-term temperature exposure: 350 °F (180 °C)- permanent temperature exposure: 300 °F (150 °C)
Storage :	In tightly closed original containers at least 3 years shelf life. Storage temperature range: 50 °F - 85 °F (10 - 30) Protect package from direct sunlight and heat.
VOC Information:	VOC as packaged: less exempt solvents 477 g/l / 4.0 lb/gl with exempt solvents 477 g/l / 4.0 lb/gl 2:1/Vol. with Mipa hardener PU 912-25 LV, PU 912-40 LV < 3.5 lbs/gal. or 2:1/Vol. with all Mipa MS LV hardeners VOC < 3.5 lbs/gal. Always check local VOC laws to ensure that the use of Mipa products is compliant in your area.

Application

Processing Conditions :	From 50 °F (10 °C) and up to 80 % relative air humidity.
Substrate Preparation :	Application without primer not recommended. Steel, Aluminium and Zinc: Mipa PU 100 2K PU Multi-Primer or Mipa 2K EP 164 High Build Primer. Powder coated old metal facades: pre clean with high pressure steam cleaner, allow to dry thoroughly. When the existing coating is not in a good condition remove peeling, flaking or scaling paint. Sand or blast and clean. Apply a ground coat of Mipa PU 100 2K PU Multi-Primer or Mipa EP 164 thick coat primer for best anti corrosive protection.

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.

Application Process :	Hardener	Pressure (psi)	Nozzle mm / inch	Spraying Operations	Dilution
HVLP	PU 912-25 LV PU 912-40 LV	29 - 36	1,2 – 1,6	2 - 3	0 - 15 %
Pressure pot		29 - 50	1,1 – 1,3	2 - 3	0 - 15 %
Airless / Airmix		1450 - 2175	0,011 - 0,015	1 - 2	0 - 10 %

For best high gloss result or for wet in wet application with Mipa PU 100 2K PU Multi-Filler or EP164 high build primer we recommend to use Mipa 2K hardener PU 912-40 LV slow and ZERO VOC Thinner slow.

Dilution : Mipa Zero VOC Thinner medium or slow

Hardener : Mipa Hardener PU 912-25 LV medium or PU 912-40 LV slow

Mixing Ratio :
 with PU 912-25 LV 2 : 1 by volume (Paint : Hardener)
 with PU 912-40 LV 2 : 1 by volume (Paint : Hardener)
 with all MS hardeners LV 2 : 1 by volume (Paint : Hardener)

Hardener	PU 912-25 LV medium			PU 912-40 LV slow		
	Drying	dust dry	set to touch	handle	dust dry	set to touch
Obj.Temp. 70 °F	30 – 45 min.	3 – 4 h	16 h	30 - 45 min.	3 - 4 h	16 h
Obj.Temp. 140 °F	5 - 10 min.	20 - 30 min.	35 - 40 min.	10 - 15 min.	35 - 40 min.	45 - 60 min.

Full cure after 7 days (70 °F)

Pot Life :
 2K hardener PU 912-25 LV medium 2 - 3 hours / 70 °F (20 °C)
 2K hardener PU 912-40 LV slow 3 - 5 hours / 70 °F (20 °C)

Application Proposal : **2-coat application (for high corrosive environment) :
ferrous metal, steel :**

Base coat: PU 100 or EP 164 (coat thickness: 3 - 4 mil)
 Top coat: PU 240 gloss, semi gloss or mat (coat thickness: 2 - 3 mil)

zinc :
 Base coat: PU 100 or EP 164 (coat thickness: 2 - 4 mil)
 Top coat: PU 240 gloss, semi gloss or mat (coat thickness: 2 - 3 mil)

aluminium :
 Base coat: PU 100 or EP 164 (coat thickness: 2 - 4 mil)
 Top coat: PU 240 gloss, semi gloss or mat (coat thickness: 2 - 3 mil)

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Application Proposal :	powder coated old facades, coil coated old facades: Base coat: EP 164 thick coat primer (coat thickness: 3 - 4 mil) Top coat: PU 240 gloss, semi gloss or mat (coat thickness: 2 – 3 mil)
Theoret. Consumption :	6 - 6,5 m ² / Ltr. or 244 – 265 sq ft / Gal. (2 mil dry coat thickness)

Physical properties

Painting scheme :	steel, pre treatment: blast cleaning
	2-coat application: EP 164 (3 - 4 mil) + PU 240 gloss, semi gloss or mat (2 - 3 mil)
Salt fog resistance : ASTM B117	1000 hours (no rusting or blistering)
Flexibility: ASTM D522	passed 3,2mm 1/8" Test Method B
Pencil hardness : ASTM D3363	2H
Pull-Off-Adhesion : ASTM D4541	500 psi
Abrasion Resistance: ASTM D4060 1kg load CS17 wheel, 1000 cycles	134 mg loss
QUV -A : ASTM D4587	1000 hours 97% gloss retention

Special Recommendations

Always check local VOC laws to ensure that the use of Mipa products is compliant in your area.

Keep the recommended coat thickness in order not to prolong drying. The application of higher thickness may remarkably prolong the drying time. Please check for colour accuracy prior to use.

In case of Airmix / Airless application, always test for proper type of equipment before use!
For best gloss results, we recommend to use PU 912-40 LV slow and ZERO VOC Thinner slow.
If necessary add 3 – max. 5 % Mipa 2K-Systemzusatz (airless additive) to prevent boiling and micro foam.

If you mix the paint with a measuring stick, use a cylindrical, not a conical can!
Electrostatic application sector: 0,04 - 26,3 Mega-Ohm / 3 - 200 Mega-Ohm x cm

Not recommended for immersion service in water and salt water.
Not recommended for use with portable water.

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PU 240
2K PU Top Coat

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Product Information

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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