Heraeus

Resinates

RL PT APP 100A - H Brown H

Liquid Bright Platinum / DPIS*

* Development Product Information Sheet

Description
RL PT APP100A-H BROWN H is a sprayable gold/platinum solution for use on different metal alloys or high temperature enamels.

After firing metallic gold/platinum films are achieved. The films are highly reflective for infra-red radiation and resistant to high temperatures.

Key Benefits
- The material can be used for:
  - Reducing rate of heat transfer on engine shrouds, drag-shute containers, tailcone assemblies, blast shields and cooling ducts;
  - Heat reflectors in aircrafts and military applications to protect heat sensitive parts from infra-red heat radiation generated by engines.
- Free of lead, cadmium and nickel
- Free of phthalate
- REACH [2] and RoHS [3] compliant

Processing
1. When stored in a refrigerator allow product to come to room temperature prior to opening, to avoid condensation.
2. Application by: Air Brush Spray
   Electrostatic Spray
3. Firing (peak) recommendations for:

High temp. enamels on steel:	700 – 760 °C
Stainless steel:	535 – 540 °C
Magnesium alloys:	400 – 480 °C
Titanium alloy:	400 – 480 °C
Aluminum alloys:	500 – 540 °C

Thinner HVS 100

Typical Properties (Solution)

Form:	Dark brown liquid
Viscosity:	0.5 – 50 mPas (25 °C, D = 60 rpm)
Metal Content [4]:	5.50 % ± 0.3 % Au 0.75 % ± 0.2 % Pt
Chemical Characterisation:	Gold and platinum sulfo-resinates, metal resinates, synthetic and natural resins dissolved in organic solvents
Shelf Life:	6 months from date of shipment with correct storage (in a dry, cool (5 - 25 °C) and dark place with container tightly shut)

Typical Properties (Fired) [1]

Color:	Platinum grey

RL PT APP 100A - H Brown H

Liquid Bright Platinum / DPIS*

* Development Product Information Sheet

1 Typical properties based on laboratory test methods. For optimum results all materials should be fired in a profiled furnace supplied with dried, hydrocarbon and other contaminant free air (PP-1).

2 REACH compliant according to the latest ** Annex XIV to Regulation (EC) of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") by European Chemicals Agency and its subsequent amendments; the material does not contain any substance listed in Annex XIV.

3 RoHS compliant according to the latest ** Directives (European Union) of Restriction of Hazardous Substances ("RoHS") and its subsequent amendments (including the exceptions related to Pb)

4 Inductively coupled plasma optical emission spectrometry (ICP-OES), also referred to as inductively coupled plasma atomic emission spectroscopy (ICP-AES), is an analytical technique used for the detection of trace metals.

** See the data sheet issue date (DD/MM/YY) as reference of validity of latest edition which is available on request.

Heraeus Deutschland
GmbH & Co. KG
Heraeus Performance Products
BL Precious Colours
Heraeusstr. 12 – 14
63450 Hanau, Germany
E-Mail: preciouscolours@heraeus.com