



Heraeus Precious Coatings –  
Precious Metal decoration for glass and ceramics

## Heraeus Precious Coatings – Products for the glass and ceramics industry

Heraeus Precious Coatings is a global manufacturer of precious metal decoration products for ceramics and glass. Heraeus profits from over 100 years experience in ceramic and glass decoration designs, which has always made the department a pioneer in the development of precious metal colours.

Modern precious metal preparations have to meet high demands on different types of substrates – such as on porcelain, tiles, drinking glasses, flacons and bottles. Decorations have to achieve good mechanical and chemical resistance such as dishwasher durability.

The products supplied by Heraeus Precious Coatings include:

- Bright gold and platinum products
- Silk-matt gold and platinum products
- Burnish gold and platinum products
- Luster

Create fine highlights in the decoration of glass and ceramics!



# Heraeus Precious Coatings – Products for Tableware

## Tableware Decal Application

### Decoration with decals

Decorating materials are printed on dextrin-coated specialty papers and are coated with a covercoat film afterwards. The finished decal is soaked in water so that the covercoat

film is released from the paper together with the colours. It can be applied by a squeegee to the object.

Material description	Colour shade	Onglaze / inglaze	Substrate porcelain	Substrate bone china	Substrate tile	Chemical resistance (ASTM, Suma)	Decoration system relevant	Product group
<b>Onglaze</b>								
<b>Bright Precious Metal Compounds</b>								
GGP 1215-10% H	light yellow	OG	•				•	Bright Gold Paste
GGP 1215-12% H	light yellow	OG	•				•	Bright Gold Paste
GGP 2538-10% H (GGP 2615/EI/SET/HD)	light yellow	OG	•				•	Bright Gold Paste
GGP 3022 D-12% H	light yellow	OG	•	•		••		Bright Gold Paste
GGP 2538-12% H (GGP 2614/EI/SET/HD)	light yellow	OG	•				•	Bright Gold Paste
GGP 2556-10% H	yellow	OG	•			••		Bright Gold Paste
GGP 1213-10% H	yellow	OG	•				•	Bright Gold Paste
GGP 2536-10% H	yellow	OG	•	•			•	Bright Gold Paste
GGP 2555-12% H	yellow	OG	•	•		••	•	Bright Gold Paste
GGP 2560-10% H	yellow	OG	•					Bright Gold Paste
GGP 1220-10% H	yellow reddish	OG	•	•	•		•	Bright Gold Paste
GGP 2516/MW-9% H	yellow reddish	OG	•	•				Bright Gold Paste
GGP 1211-10% H	yellow reddish	OG	•	•			•	Bright Gold Paste
GGP 2531/MW-7% H	yellow reddish	OG	•	•				Bright Gold Paste
GGP 2602-10%HD	reddish	OG	•	•			•	Bright Gold Paste
GGP 1220-8% H	reddish	OG	•				•	Bright Gold Paste
GPP 4520 H	platin light	OG	•			•	•	Bright Platinum Paste
GPP 4605/EI/SET H	platin light	OG	•				•	Bright Platinum Paste
GPP 1240 H	platin	OG	•	•			•	Bright Platinum Paste
GPP 5018 D/MW H	platin	OG	•	•				Bright Platinum Paste
GPP 4522 H	platin	OG	•			•	•	Bright Platinum Paste
GPP 4308 H	platin	OG	•	•			•	Bright Platinum Paste
GPP 3020 D H	platin yellowish	OG	•	•		••		Bright Platinum Paste
<b>Silk Matt Precious Metal Compounds</b>								
MGP 2525-14% H	light yellow	OG	•					Silk Matt Gold Paste
MGP 2528-15% H	yellow	OG	•	•		••		Silk Matt Gold Paste
MGP 2329-12% H	yellow	OG	•	•				Silk Matt Gold Paste
MGP 2318-14% H	yellow	OG	•	•				Silk Matt Gold Paste
MGP 2328-12% H	yellow	OG	•	•				Silk Matt Gold Paste
MPP 4318 H	platin, silk matt	OG	•	•				Silk Matt Platinum Paste
<b>Burnish Precious Metal Compounds</b>								
PGP BG 180/209 H	light yellow	OG	•					Burnish Gold Paste
PGP BR 192/204 H	yellow	OG	•	•				Burnish Gold Paste
PGP 3036 D-32% H	yellow	OG	•					Burnish Gold Paste
PGP 0096A H	yellow	OG	•			•		Burnish Gold Paste
PGP 374/209-30% H	yellow	OG	•	•				Burnish Gold Paste
PGP 357/204-28% H	yellow reddish	OG	•					Burnish Gold Paste
PPP 341/209 H	platin	OG	•					Burnish Platinum Paste
<b>Inglaze</b>								
<b>Burnish Precious Metal Compounds</b>								
SGP 41/UV H	yellow	IG	•					Burnish Gold Paste
SGP 5823 HTS H	yellow	IG	•					Burnish Gold Paste
SGP 5818 S HTS H	yellow	IG	•					Burnish Gold Paste
SGP 26/204/209 H	yellow reddish	IG	•	•		•		Burnish Gold Paste
SGP 21/204/209 H	yellow reddish	IG	•	•		••		Burnish Gold Paste
SPP 34/209 H	platin yellowish	IG	•					Burnish Platinum Paste
SPP 42/UV H	platin	IG	•					Burnish Platinum Paste

## Tableware Brush Application and Spraying

Material description	Colour shade	Application	Onglaze / inglaze	Substrate porcelain	Substrate bone china	Substrate tiles	Chemical resistance (ASTM, Suma)	Decoration system relevant	Product group
<b>Onlaze</b>									
<b>Bright Precious Metal Compounds</b>									
GG 346-10% H	light yellow	Tableware liquid	OG	•				•	Bright Gold
GG 347-12% H	light yellow	Tableware liquid	OG	•				•	Bright Gold
PH 3/6-4 (GG 3021 D H)	light yellow	Tableware liquid	OG	•					Bright Gold
GGP 5001 D-10% H	yellow	Tableware stippling	OG	•	•				Bright Gold, stippling Paste
GG 347-10% H	yellow	Tableware liquid	OG	•				•	Bright Gold
GG 501/11 H	yellow reddish	Tableware liquid	OG	•	•		••	•	Bright Gold
GG 1539-10% H	yellow reddish	Tableware liquid	OG	•	•		••	•	Bright Gold
GG NZ-10% H	yellow reddish	Tableware liquid	OG	•	•				Bright Gold
GG 501/2/11 H	yellow reddish	Tableware liquid	OG	•			••		Bright Gold
GP 3301 H	platin white	Tableware liquid	OG		•				Bright Platinum
GP P 12/1 H	platin	Tableware liquid	OG	•				•	Bright Platinum
GP 1404/6 H	platin bluish	Tableware liquid	OG	•			•	•	Bright Platinum
GP 1404 H	platin bluish	Tableware liquid	OG	•				•	Bright Platinum
GP 1404/5 H	platin bluish	Tableware liquid	OG	•			••	•	Bright Platinum
GP 3309/1 H	platin yellowish	Tableware liquid	OG	•	•		••	•	Bright Platinum
PH 3/7-2 (GP 350 H)	platin dark	Tableware liquid	OG	•				•	Bright Platinum
<b>Silk Matt Precious Metal Compounds</b>									
MG 1516-11% H	light yellow	Tableware liquid	OG	•					Silk Matt Gold
MG 1316-16% H	reddish	Tableware liquid	OG	•	•		••	•	Silk Matt Gold
MP 3311 H	platin yellowish	Tableware liquid	OG	•	•				Silk Matt Platinum
<b>Burnish Precious Metal Compounds</b>									
PG 1612-24% HD	yellow	Tableware liquid	OG	•					Burnish Gold
PG 657 W H	yellow	Tableware liquid	OG	•					Burnish Gold
PG 1612-16,4% HD	yellow	Tableware liquid	OG	•					Burnish Gold
PG 3034 D-20% H	yellow	Tableware liquid	OG	•					Burnish Gold
PG 5524-20% H	yellow	Tableware liquid	OG	•			•		Burnish Gold
PGP 6500-20% H	yellow	Tableware lining for neoprene banding machine	OG	•					Burnish Gold Paste
PG 191113-20% H	yellow	Tableware liquid	OG	•					Burnish Gold
PG 698 H	yellow	Tableware liquid	OG	•					Burnish Gold
PG0093A H	yellow	Tableware liquid	OG		•				Burnish Gold
PG 677 B H	yellow	Tableware liquid	OG	•					Burnish Gold
PG 661 HA	yellow reddish	Tableware liquid	OG	•			•		Burnish Gold
PP F BS/4 H	platin bluish	Tableware liquid	OG	x					Burnish Platinum
<b>Inglaze</b>									
<b>Burnish Precious Metal Compounds</b>									
SG 822 H	yellow	Tableware liquid	IG	x					Burnish Gold

## Heraeus Precious Coatings – Products for the Glass Industry

Modern precious metal preparations and colours have to meet high demands on different types of glassware – such as on drinking glasses, flacons and bottles.

### Direct screen printing

#### Direct Screen Printing

Precious metal preparations, lusters and colours are directly printed onto the object.

Material description	Colour shade	Substrate glass tumbler	Substrate glass bottle	Substrate glass flacon	Substrate glass special	Chemical resistance (ASTM, Suma)	Suitable for decoration systems	Product group
<b>Bright Precious Metal Compounds</b>								
GGP 1229 D H	light yellow	•		•		•		Bright Gold Paste
GGP 1235 D H	light yellow		•	•			•	Bright Gold Paste
GGP 060817	light yellow	•		•				Bright Gold Paste
GGP 1205 D-10% H	light yellow		•	•				Bright Gold Paste
GGP 2051-12% H	yellow	•	•	•		•		Bright Gold Paste
GGP 1242 D-10% H	yellow	•		•				Bright Gold Paste
GGP 050713-12%	yellow		•	•				Bright Gold Paste
GGP 050714 H	yellow reddish		(•)	(•)			washable	Bright Gold Paste
GGP 2067-7,4 % H	copper	•	•	•				Copper Paste
GPP 020218 H	platin light			•				Bright Platinum Paste
GPP 1000 D H	platin yellowish			•	borosilicate/ lead			Bright Platinum Paste
GPP 1002 D H	platin		•	•				Bright Platinum Paste

### Lining

#### Lining

High-viscosity preparations are applied onto the substrate with a small roller (neoprene).

Material description	Colour shade	Application	Substrate glass tumbler	Chemical resistance (ASTM, Suma)	Product group
<b>Bright Precious Metal Compounds</b>					
GGP 1110 D-9% H	light yellow	Glass lining	•	•	Bright Gold Paste
GGP 050817	light yellow	Glass lining	•		Bright Gold Paste
GPP RC/4021 H	platin	Glass lining	•	•	Bright Platinum Paste

## Glass TH

### Thermoplastic Screen Printing

The precious metal paste is printed via a heated screen (65 to 80°C/150 to 175°F) directly onto the cold substrate surface. It solidifies immediately after the applica-

tion so that the printing of a complete decor – consisting of precious metal preparation and different colours – is possible within a few seconds.

Material description	Colour shade	Application	Substrate glass tumbler	Substrate glass bottle	Substrate glass flacon	Chemical resistance (ASTM, Suma)	Product group
<b>Bright Precious Metal Compounds</b>							
GGP 050318/TH H	light yellow	Glass TH	•			••	Bright Gold Paste
GGP 060318 TH	light yellow	Glass TH	•			•	Bright Gold Paste
GGP 1233 D/TH H	yellow	Glass TH	•	•		•	Bright Gold Paste
GGP 6101/10-TH H	yellow	Glass TH	•				Bright Gold Paste
GGP 1114 D/TH H	yellow	Glass TH	•	•			Bright Gold Paste
GGP 1238 D/TH H	copper	Glass TH	•	•			Copper Paste
GGP 1236 D/TH H	rosé	Glass TH	•				Bright Gold Paste
GPP 1243 D/TH H	platin yellowish	Glass TH	•			•	Bright Platinum Paste
GPP 1119 D/TH H	platin	Glass TH		•	•		Bright Platinum Paste

## Glass Decal

### Decoration with decals

Decorating materials are printed on dextrin-coated specialty papers and are coated with a covercoat film afterwards. The finished decal is soaked in water so that

the covercoat film is released from the paper together with the colours. It can be applied by a squeegee to the object.

Material description	Colour shade	Application	Substrate glass tumbler	Substrate glass bottle	Substrate glass flacon	Substrate glass special	Chemical resistance (ASTM, Suma)	Suitable for decoration systems	Product group
<b>Bright Precious Metal Compounds</b>									
GGP 2127-9% H	light yellow	Glass decal	•				••		Bright Gold Paste
GGP 1230/3-10% H	yellow	Glass decal	•			borosilicate	•		Bright Gold Paste
GGP 2046-10% H	yellow	Glass decal	•	•	•	borosilicate			Bright Gold Paste
GGP 1230-8% H	yellow	Glass decal	•			borosilicate			Bright Gold Paste
GPP 1260 H	platin yellowish	Glass decal	•					•	Bright Platinum Paste
GPP 1261 H	platin	Glass decal	•					•	Bright Platinum Paste

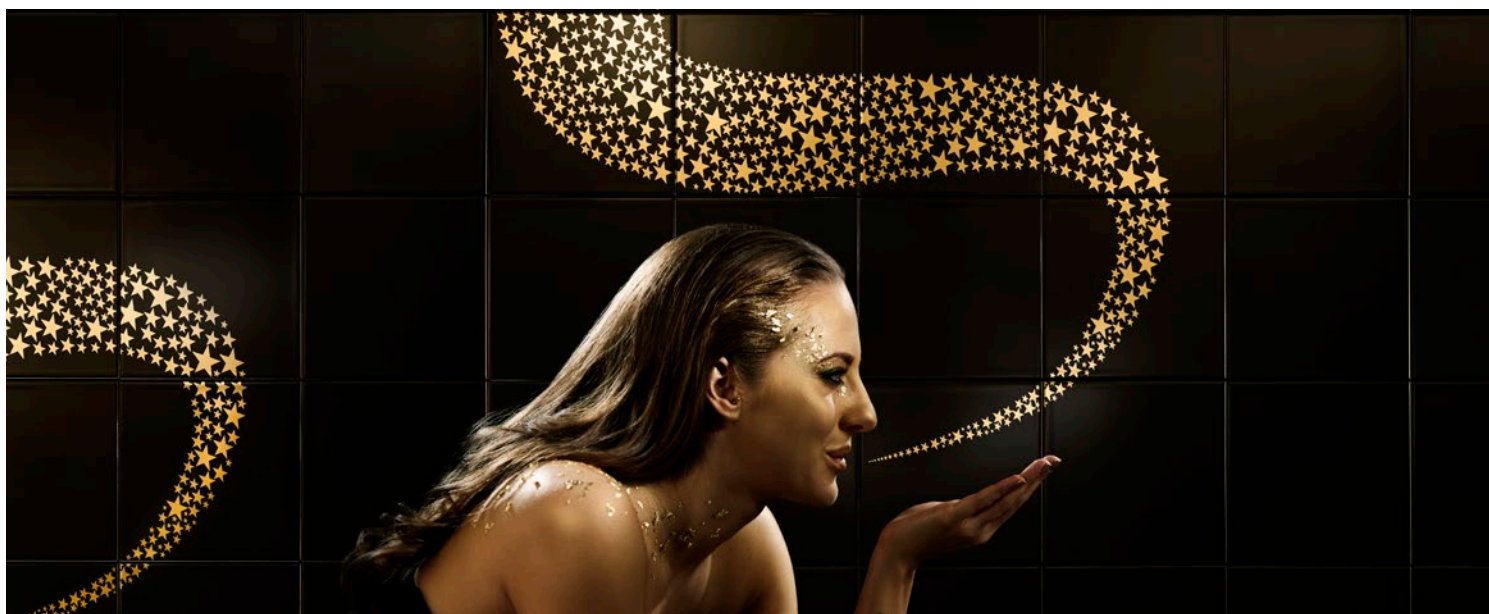
## Glass Brush Application and Spraying

### Glass Liquid

Material description	Colour shade	Application	Substrate glass tumbler	Substrate glass special	Chemical resistance (ASTM, Suma)	Suitable for decoration systems	Product group
<b>Bright Precious Metal Compounds</b>							
GG 1237 D H	light yellow	Glass liquid	•		•		Bright Gold
GG 117/12 H	light yellow	Glass liquid	•		•		Bright Gold
GG 1046-12% H	yellow	Glass liquid	•	lead		•	Bright Gold
GG B 15/M-12% H	yellow	Glass liquid	•	borosilicate			Bright Gold
G Q 3/ST/2-15,1% H	yellow	Glass liquid	•	quartz glass			Bright Gold
GG 1228 D-10% H	yellow reddish	Glass liquid	•				Bright Gold
PH 3/8-2 (GG 100/10 H)	yellow reddish	Glass liquid	•				Bright Gold
GP 3000 H	platin	Glass liquid	•	lead			Bright Platinum
PH 3/5-2 (GP 110 H)	platin	Glass liquid	•				Bright Platinum
<b>Burnish Precious Metal Compounds</b>							
PG 5003-18% H	yellow	Glass liquid	•	lead			Burnish Platinum

### Luster for ceramics and glass

Material description	Colour shade	Application	Substrate porcelain	Substrate tile	Substrate glass tumbler
ST 26 Copper	copper	Lustre PM	•		
N338 Green	green	Lustre PM	•		•
N 543 Grey	grey	Lustre PM	•		•
LU 109 A Ruby Red	rubin	Lustre PM			•
LU 2 A Ruby Red	pink	Lustre PM	•		
LU 200 Dark Blue	blue	Lustre PM	•		•
N 472 Iris	iris	Lustre PM free	•		•
N 630 Iris	iris	Lustre PM free	•		•
LUP 9301/SI	iris	Lustre paste PM free	•	•	
LUP N 631/SI	white	Lustre paste PM free	•		•
LU 34 Silver Iris	iris	Lustre PM free	•		•
TLU 0038 A Pink	pink	Lustre PM	•		•



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