

NEW! HIGH FLOW ACRYLIC COLORS

ITEM	SERIES	COLOR	ITEM	SERIES	COLOR
	0008529	3 Hansa Yellow Light		0008545	4 Sap Green Hue
	0008530	3 Hansa Yellow Medium		0008528	7 Green Gold
	0008557	1 Transparent Hansa Yellow Medium		0008548	1 Titan Buff
	0008534	6 Nickel Azo Yellow		0008552	1 Yellow Oxide
	0008542	7 Quinacridone / Nickel Azo Gold		0008565	1 Transparent Yellow Iron Oxide
	0008527	6 Diarylide Yellow		0008543	1 Raw Sienna
	0008539	8 Pyrrole Orange		0008563	1 Transparent Red Iron Oxide
	0008532	5 Naphthol Red Light		0008523	1 Burnt Sienna
	0008558	1 Transparent Naphthol Red Light		0008562	1 Transparent Brown Iron Oxide
	0008541	6 Quinacridone Red		0008544	1 Raw Umber
	0008561	1 Transparent Quinacridone Red		0008546	2 Sepia
	0008521	7 Alizarin Crimson Hue		0008533	1 Neutral Gray N5
	0008540	7 Quinacridone Magenta		0008564	1 Transparent Shading Gray
	0008536	7 Permanent Violet Dark		0008524	1 Carbon Black
	0008556	1 Transparent Dioxazine Purple		0008549	1 Titanium White
	0008551	2 Ultramarine Blue		0008571	7 Iridescent Copper (Fine)
	0008526	3 Cerulean Blue Hue		0008572	6 Iridescent Gold (Fine)
	0008522	7 Indigo (Anthraquinone)		0008573	5 Iridescent Silver (Fine)
	0008537	4 Phthalo Blue / G.S.		0008574	4 Iridescent Pearl (Fine)
	0008559	1 Transparent Phthalo Blue / G.S.		0008566	5 Fluorescent Blue
	0008547	3 Teal		0008567	5 Fluorescent Chartreuse
	0008550	4 Turquoise (Phthalo)		0008568	5 Fluorescent Green
	0008538	4 Phthalo Green / B.S.		0008569	5 Fluorescent Orange
	0008560	1 Transparent Phthalo Green / B.S.		0008570	5 Fluorescent Pink
	0008535	4 Permanent Green Light			



UNSTOPPABLE COLOR!

Introducing **GOLDEN High Flow Acrylics**, a new acrylic paint line that can go from brush to marker or from fountain pen to airbrush and more. From fine line detail work to broad strokes, High Flow Acrylic has an ink-like consistency that lends itself to a wide range of techniques, and a wide range of artists.

Available at your nearest Golden Retailer, late summer 2013.



PRODUCT DESCRIPTION

GOLDEN High Flow Acrylics are:

- A set of 49 colors, including Fluorescent and Iridescent Colors made with the same ingredients of other GOLDEN Artist Colors paint lines.
- Formulated with 100% acrylic polymer dispersion, resulting in a durable paint layer with excellent water and chemical resistance.
- Made with finely ground pigments to reduce clogging issues in small tips and nozzles.
- Additives such as flow improvers, film levelers and retarders create a very thin and free-flowing paint.
- Application use ranges from fine line-work to large passages on a variety of surfaces, such as paper, canvas, panel and other artist supports.

Pre-Use Mixing Instructions

- **Remove the safety seal**
 1. Unscrew the cap
 2. Carefully peel off and discard the seal
 3. Securely re-attach the twist-top cap
- **Assure the paint is well-mixed prior to use**

High Flow Acrylics are likely to have a degree of separation and soft settling when they are not being used. Before using, follow this procedure to assure a homogenous paint

 1. Assure the twist top cap is closed and secure prior to shaking the container
 2. If necessary, free up the mixing ball inside the container by carefully tapping the bottom edge against a hard surface
 3. Shake the container for 30 seconds or until the product is evenly mixed
 4. Some colors may require a longer mixing time than others due to pigment density
 5. Re-shake the bottle after long periods of time or whenever there are signs of settling

APPLICATION

GOLDEN High Flow Acrylics (HFAs) are professional artist grade acrylic paints. HFAs may be used whenever a thin paint is required. This Product Information Sheet provides some general suggestions and starting points for specific applications, but each artist will develop their own methods and processes as needed

- **General Thinning Instructions:** Avoid thinning with water more than 20% by volume when using in pens and airbrushes, or when doing applications on non-absorbent surfaces. Use Airbrush Transparent Extender for high levels of thinning/extending.
- **Blends with other GOLDEN Products:**

NOTE: HFAs contain retarders which alter the drying times of a mixture; thicker paint layers may remain tacky for long periods of time.

GOLDEN HFAs are compatible with most GOLDEN Artist Colors' paints and mediums. They can be added to **GOLDEN Heavy Body Acrylics** or **GOLDEN Fluid Acrylics** to thin the paint without a loss of pigment or film strength. Extend HFAs with **GOLDEN Airbrush Transparent Extender** as needed. Adding high levels of water are acceptable when doing color stains on absorbent surfaces but additional layers of acrylic medium applied afterward may be required for long term durability.

- **Use as colorant/tint:** As with any GOLDEN paint, HFAs may be used to add color to gels, mediums and pastes. They blend readily with thinner mediums, such as GOLDEN Acrylic Glazing Liquid, or GOLDEN Polymer Medium (Gloss).

Paint Sensitivity Timelines: The HFAs may require additional time to dry before applying other paints or mediums over them, especially if those materials contain retarders. Allow for HFAs to dry sufficiently to avoid sensitivity issues. In most applications the waiting period is several minutes.

Isolation Coats and Varnishing: Allow 12-24 hours for the HFA layers to dry before applying isolation coats or varnish layers. Some colors, such as the Fluorescent Colors, can take longer to fully cure than others. Test the process to identify the amount of time to wait for drying or which mediums can be more problematic than others.

SUBSTRATES

HFAs absorb readily and spread freely. They are influenced by gravity, much like working with watercolors. In some cases, switching or modifying the surface before painting can greatly alter how the paints behave.

- **Absorbent Substrates:** When working on absorbent surfaces like watercolor paper, thin layers of HFAs lose their paint sensitivity very quickly and may be painted over within several minutes without concern of lifting.
- **Non-Porous Substrates:** When working on non-absorbent surfaces such as acrylic sheeting (PlexiGlas®, Acrylite®, etc.), Mylar®, and Duralar®, the HFAs may be applied without a primer. It is important to remove contaminants like fingerprint oils and release agents, and test each substrate prior to use. Because HFAs and other paints take longer to dry on non-porous substrates, some thin mediums and paint layers may "crawl" and not lay evenly on recently applied paint layers.

GENERAL PAINTING SUGGESTIONS

Brushes: Both natural and synthetic brushes may be used with HFAs. Fine detail brushes work exceptionally well with these paints and can produce long consistent lines. Color wash brushes intended for watermedia applications or watercolor techniques are suitable as well. Coarse bristle brushes generate more foam bubbles due to their rougher feel especially on textural surfaces.

- **Glazing:** When it is important to maintain the consistency of HFAs use GOLDEN Airbrush Transparent Extender. Other GOLDEN Mediums may be used to extend the HFAs but they will change the consistency of the paint.
- **Water Media Techniques:** HFAs produce intense color washes due to their high pigment load. They can be modified as needed with water when working on paper and other absorbent surfaces. Over thinning with water can create sensitive paint layers, especially when used on non-absorbent surfaces.
- **Canvas Stains:** Large areas of color can be created without any need for additional thinning with water or additives. Adding high levels of water increases the surface tension, reducing the ability of the color to absorb into the raw canvas. Add GOLDEN Acrylic Flow Release (as directed) to improve the staining ability.
- **Pours:** HFAs are well suited for use on large areas, where the thin consistency allows for free flowing color layers. The pigment size and intensity varies between each color. Denser, larger pigment particles settle more rapidly than smaller particles.
- **Wet into Wet:** The thin feel and slow drying nature allows HFAs to readily spread across wet surfaces or paint layers. Different kinds of acrylic gels and mediums can alter the behavior, as well as different paint colors will produce different patterns and spread rates.

AIRBRUSH & SPRAYING

HFAs spray very well through airbrushes with minimal clogging. Some pigments are not well suited for use in airbrushes with small nozzles and fine tips, so refer to the reference chart. Due to pigment particle differences, some colors will spray better than others (see table below.) If thinning is required, add small amounts of water into the paint. When a high degree of extending is required, use the GOLDEN Airbrush Transparent Extender.

- **Spray Equipment:** The thin viscosity allows for spraying straight out of the container without the need for mediums or modifiers. Smaller airbrushes can be sprayed at 25-50 p.s.i. Larger spray equipment should be sprayed in the lower end of the equipment's recommendations to reduce overspray. HVLP Systems may be used with this paint line, although the nozzle sizes should be smaller, such as 1.4mm to avoid over "atomization" of spray which can result in a rougher, chalky paint surface.

Preval sprayers, pump sprayers or other spray equipment not designed for good atomization are likely to produce uneven, slower drying results. **Mouth Atomizers are NOT recommended.**

- **Masking & Frisket Use:** HFAs have excellent resistance to "pull-up" when removing frisket or tape. When masking, allow underlying paint layers to dry at least 5 minutes or longer depending on paint thickness and drying conditions. Force-drying when masking should be done very cautiously as it can cause the masking films to bubble, warp, or the adhesives to increase their grab to the paint surface. Use hair driers with low air speed and cool temperature settings.

Some low-tack masking films will not adhere sufficiently to the surface of the HFAs. Due to the variety of brands and versions, it is important to test the performance of each frisket and tape to reduce the chance of improper adhesion. Low tack films are prone to lifting during spraying, and high tack films and tapes may pull paint up during removal or repositioning.

- **HFAs Replace the Discontinued GOLDEN Airbrush Colors:** The GOLDEN Airbrush Color Paint line is discontinued in December, 2013. The HFAs offer a larger range of color choice, but there are some differences between the two paint lines regarding spraying.
 - 49 colors offered in HFA.
 - No "Opaque" naming convention in the HFAs. There will be "Transparent" colors but in HFA's the full strength colors of the same name will have the same coverage as their Airbrush Color counterpart.
 - Harder, more durable paint film. HFA's are less sensitive after dry than Airbrush Colors.
 - Slightly thicker paint formula. Add small amounts of water to thin as needed.

The HFAs are a larger range of color choices compared to the GOLDEN Airbrush Colors paints, but some previous colors are not carried over into the new paint line.

Below is a recipe guide to recreate the lost Airbrush Colors

Airbrush Color Name	Paint Color #1	Paint Color #2	Paint Color #3	Paint Color #4
Dioxazine Purple*	10 drops Anthraquinone Blue	2 drops Quinacridone Magenta		
Ultramarine Blue Hue	10 drops Anthraquinone Blue	3 drops Quinacridone Magenta	1 drop Titanium White	
Bright Orange	10 drops Hansa Yellow Medium	1 drop Naphthol Red Light		
Bright Red Orange	6 drops Hansa Yellow Medium	4 drops Naphthol Red Light		
Bright Yellow Green	9 drops Hansa Yellow Light	1 drop Transparent Phthalo Green BS		
Permanent Green Light<	6 drops Hansa Yellow Light	4 drops Phthalo Green BS		
Permanent Green Dark	8 drops Hansa Yellow Light>	2 drops Phthalo Blue GS		
Hooker's Green Hue	6 drops Phthalo Green BS	3 drops Hansa Yellow Light	1 drop Carbon Black	
Raw Sienna Hue	9 drops Hansa Yellow Light	1 drop Naphthol Red Light	1 drop Transparent Shading Gray**	
Burnt Sienna Hue	12 drops Diarylide Yellow	6 drops Naphthol Red Light	1 drop Transparent Shading Gray**	
Raw Umber Hue	6 drops Hansa Yellow Medium	3 drops Naphthol Red Light	1 drop Carbon Black	

Transparent Raw Umber Hue	1 drop Transparent Phthalo Green BS	1 drop Transparent Shading Gray**	1 drop Transparent Red Iron Oxide	3 drops Airbrush Transparent Extender
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*Dioxazine Purple is a single pigment color, but not available in HFAs.

** Transparent Shading Gray is a lower pigmented version of Carbon Black, making it easier to add in small quantities. In larger mixes, Carbon Black may be used.

PEN & INK APPLICATIONS

The low viscosity of HFAs allow for use in a large variety of pens. However, because of the range of pigments used in this paint line, some paint colors may perform better than others in different style nibs and tips.

- **Pen Size Selection for Cartridge Pens:** Although colors will behave differently depending on their colorant size and shape, very fine line nozzles (.35mm or smaller) are highly prone to clogging and should be avoided. **Fluorescent and Iridescent particles are especially likely to clog fountain and technical pens. It is not recommended to leave HFA's in pens after use.**
- **Thinning and modifying HFAs for Pen & Ink use:** When a paint color being tested performs poorly, start by adding small amounts of water to improve flow. Alternatively add **GOLDEN Airbrush Medium** to thin while improving flow and leveling. **Note:** Additions of Airbrush Medium may cause slower drying, tacky films and will lower pigment strength as more is added. Use only enough Airbrush Medium to achieve proper flow.
- **IMPORTANT: ALWAYS FOLLOW TOOL MANUFACTURER'S INSTRUCTIONS FOR PROPER CARE AND CLEANING OF PENS AND NIBS. Using HFAs or any paint/ink not recommended may void a manufacturer's warranty.**

TOOL SELECTION QUICK REFERENCE CHART

NOTE: All High Flow Acrylics NOT listed below worked well for both airbrush and technical pens of all sizes.

PAINT COLOR	AIRBRUSHES			TECHNICAL PENS		
	Fine Tip (.15-.2mm)	Medium Tip (.2-.3mm)	Large Tip (.3mm+)	Fine Tip (6X0-3X0)	Medium Tip (00-0)	Large Tip (1-2)
Fluorescents (All)		X	X		X	X
Iridescent (All)		X	X		X	X
Burnt Sienna	X	X	X	X	X	X
Green Gold		X	X		X	X
Nickel Azo Yellow		X	X		X	X
Quin./Nickel Azo Gold		X	X	X	X	X
Raw Sienna		X	X	X	X	X
Raw Umber		X	X		X	X
Ultramarine Blue		X	X	X	X	X

ADDITIONAL USES

- **Marbleizing:** Paper and fabric marbling can be done with the HFAs with satisfactory results. Some HFA colors may need some thinning to improve flow onto the marbling bath. When laundering is essential, additions of **GOLDEN GAC 900** - at a 1:1 ratio - are suggested to retain color intensity. Refer to GOLDEN Product Application Sheet "**Marbleizing with GOLDEN Acrylics**" for more information.
- **Automotive:** HFAs can be used for custom automotive painting with proper surface preparation and top-coating. The underlying paint layers and topcoat should be intended for automotive applications. The surface should be clean of finger oils and dust, and scuffed sufficiently to allow for proper adhesion. The acrylic paint layers do not need additional sanding in order for the topcoat to adhere. However, allow enough time for the water, retarders and other additives to leave the film prior to clear-coating.
- **Exterior Signage/Murals:** Any paint color listed in the GOLDEN Application sheet "**Painting Exterior Murals**" may be used for outdoor applications. Guidelines for preparation and varnishing are similar to when using other GOLDEN paint lines.
- **Wood Staining:** The HFAs are suitable for staining wood used for fine art and decorative applications. The pigments offer a wide range of color stain possibilities as well as more opaque layers. Review the GOLDEN Application sheet "**Woodstaining Objects with GOLDEN Acrylics**" for more information on this application.

Fabric/Textile: When blended with GOLDEN GAC 900 or GOLDEN Silkscreen Fabric Gel (heat-settable mediums designed to improve launderability and softness of hand. Start with 1:1 ratios of paint to GAC 900/Silkscreen Fabric Gel, and adjust as needed. Follow the GOLDEN Application Sheet “**GOLDEN Acrylics on Fabrics**” for further guidance.

STORAGE and CLEANUP INSTRUCTIONS

- Always close the caps when the paint is not in use. Store acrylic paints in an area where excessive heat and freezing temperatures are minimized.
- Clean tools with soapy water immediately after use and avoid allowing paint to dry in brushes or other tools. Dried paint films on tools may require the use of paint cleaners designed for use with acrylics.
- Some pen and airbrush manufactures specify specific cleaners and methods for proper care of their tools. **ALWAYS FOLLOW TOOL MANUFACTURER'S INSTRUCTIONS FOR PROPER CARE AND CLEANING OF PENS AND NIBS.** The use of any paint other than the recommended inks may void a manufacturer's warranty.

Disclaimer

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