IriColor400™

General Description

This product is a water-based semi-gloss acrylic paint. IriColor400™ is made specifically for indoor applications and is amongst the most suitable and durable decorative paints for residential, office, and commercial buildings. This paint has proper adhesion, hardness, stain-resistance, durability, washability, sagging-resistance, and leveling properties and provides an attractive consistent coat on the painted surfaces after drying.

This product can be applied on painted or unpainted plaster, cement, brick, render, wooden, and asbestos surfaces of walls, ceilings, doors and windows, frames, and other interior areas of residential buildings, apartments, commercial centers, offices, bedrooms, corridors, living rooms, kitchens, staircases, cabinets, balustrades, etc.

Product Technical Information

- Solids by volume 44 ±1 %
- Density 1.30 ±0.05 Kg /Lit
- Flashpoint >35ºC
- Colors/Finish White(Available in different color shades)/Semi-gloss
- Mixing ratio Single pack
- Suitable Thinner/Cleaner Water

Drying & Recoating Times

Temperature	To touch	To handle	To recoat	
			Minimum	Maximum
@ 23ºC	30 minutes	3 hours	6 hours	Indefinite
@ 30ºC	15 minutes	2 hours	4 hours	Indefinite

Note: Drying times are dependent on air and surface temperatures as well as film thickness, ventilation, and relative humidity. Maximum recoating time is highly dependent upon actual surface temperatures, not simply air temperatures, higher surface temperatures shorten the maximum recoat window.

The surface should be dry and free from contaminants prior to overcoating. The best inter-coat adhesion is achieved when the subsequent coat is applied before the preceding coat is fully cured. After prolonged exposure times it may be necessary to roughen the surface to ensure inter-coat adhesion. When in doubt, consult your nearest **Darya Tamin** office.

Application

- **Suitable methods**

Air Spray	Brush/Roller
• Nozzle pressure: 3-5 bar • Nozzle size: 1.2-2.0 mm • The volume of thinner: 0-10%	• Suitable. • The volume of thinner: 0-10%

- **Recommended thickness**

	Dry film thickness(µm)	Wet film thickness(µm)	Theoretical spreading rate (m^2/l)
Acceptable range	40-60	90-135	7.3-11.0

Surface Preparation

All of the surfaces must be hard, clean, dry, and free from any dirt, dust, oil, wax, grease, mold, efflorescence, rust, and contaminant. The contaminants must be removed using suitable methods prior to painting. These factors have negative effects on adhesion and efficiency of the coating. Rough and uneven surfaces must be leveled and polished using suitable sandpapers. Fill all cracks, seams, and gaps by proper materials.

Plaster: Give adequate drying time in standard temperature to the new plastered surfaces. Fill all cracks, seams, and gaps with suitable materials and polish the surface after drying. Remove sandpaper and loose particles from the surface using a wet cloth. . The new plaster surfaces must be fully saturated using a suitable sealer (IriColor000™). Use acrylic putty (IriColor100™) if the surface is porous or uneven.

Concrete, Rendered, and Brick Surfaces: Make sure that a minimum drying time of four weeks for concrete and two weeks for other materials is given to the surface prior to painting. You may use water-jet to clean cement surfaces and make sure that the surface is fully dried before applying the paint. The new surfaces must be fully saturated using a suitable sealer (IriColor000™). Use acrylic putty (IriColor100™) if the surface is porous or uneven.

Repainting the Painted Surfaces: Suitable cleaning methods shall be used to remove contaminants from the surface. When there are oils, waxes, or greases on the surface, it is necessary to use the related cleaning agents. Remaining cleaning agents must be removed by rinsing. Any coats remaining on the surface must be of adequate rigidity and adhesion. All weak coats and damaged areas must be removed by sandpaper or any other suitable methods. Glossy, glass, and smooth surfaces must be furbished by sandpaper and uneven surfaces must be repaired by putty. Apply primer partially to the unpainted surfaces.

Typical Paint Systems

1- Acrylic Sealer (IriColor 000™)
2- Acrylic Putty (IriColor100™)
3- Acrylic Primer (IriColor200™)
4- Matt Acrylic Paint for Interior Areas (IriColor300™)
5- Semi Gloss Acrylic Paint for Interior Areas (IriColor400™)

Application condition

The paint is prepared and packed in the unique container. All tools must be cleaned well before application. Steer the paint first steadily by a suitable tool and make sure there are no sediments at bottom of the container. If you use water as thinner, pure it slowly and steer the paint at the same time to reach the proper viscosity for application. Never mix solvents, oils, or solvent-based paints with this type of paint. Apply the paint in standard humidity, not exceeding 85%. The most suitable temperature for painting is between 10-45°C. Proper ventilation is required in indoor areas to assure proper application and drying of the paint.

Important Notes:

-Avoid leaving brush or roller edge traces in all stages of painting work when using brush or paint roller.
-A minimum overlap of 50% is required when using sprays.
-When using brush, use high quality synthesized filaments.
-When using roller brush make sure that the pile thickness matches porosity of the surface.
-The drying time depends directly on surface and ambient temperature.
-Never use the paint in temperature and relative humidity out of the standard range indicated in the technical sheet.
-Make sure adequate thickness of the film is applied to provide a complete and consistent coat.
-Specific attention should be paid to allowable time and surface preparation requirements when applying the subsequent coat.
-Excessive diluting may result in defects like sagging, improper finish, inadequate adhesion, etc.

Storage, Handling & Shelf Life

Keep the containers in a roofed dry and cool place with proper ventilation and away from direct sunlight. High temperature may affect stability of the paint. The container lids must be closed tightly during the storage period. The ideal storage temperature is 5-35ºC. Avoid freezing. This product's shelf life @ 25°C is 24 months.

Environmental, Health & Safety Note

Read the material safety data sheet (MSDS) of the product before use and pay attention to safety signs attached to the product can. Although this product is water-borne, but it contains chemical compounds that will effect on human body and environment. Don't discard the product on planets, sea, river and drinking water sources.
When removing the old paints from the surface, especially those that contain toxic metals, breathing their dust will effect on human's health. Use the paint in good ventilation.

Keep out of reach of children.

Disclaimer

The information in this document is given to the best of IRIS's knowledge based on professional tests by our experts. However other factors that are affecting the use and application of this product are out of IRIS's responsibility.

For more information contact with Darya Tamin.