PRODUCT INFORMATION

printcolor ©
high performance inks

NEU
NEW

Series 632

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Advanced, silicone-free 2C screen printing ink

for glass, metal and duroplasts
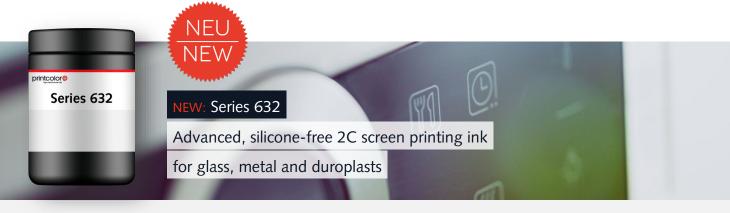
KEY CHARACTERISTICS

- › Excellent adhesion
- › Top finish and superb gloss
- › Comprehensive color range
- › Outstanding resistance
- › High surface tension
- › Compliant with latest standards

Our Series 632 is a new, solvent-based, silicon-free, two-component screen printing ink. Its superior characteristics mean it is particularly well suited for complex applications that demand high quality on glass, metals and duroplasts. Series 632 produces a brilliant result wherever you need a premium finish and secure bonding. It dries quickly while maintaining outstanding sieve openness, has excellent intercoat adhesion, flows beautifully and has particularly high mechanical and chemical resistance. It is also available in a wide variety of different colors and special effects in our comprehensive mixing system, allowing for extensive customization in line with customer requirements.

Applications

- › **Optimized for demanding flat glass applications**
- › **Perfect for displays and touch panels**
- › **Ideal for glass and metal cover plates**
- › **Automotive interiors: speedometers, mirrors**

- › **Entertainment electronics: cover plates, screens**
- › **Household appliances: kitchen utensils, scales**
- › **Furniture: decorative glass, furniture decoration**
- › **Finishing: surface textures and effects**

Universal adhesion spectrum

We developed Series 632 especially for printing on glass, ceramics, various metals and duroplasts. It contains **no silicone**, so it achieves excellent bonding with adhesives – for example in applications behind glass for panels or cover plates, or combined with numerous plastics[1].

[1] You can find a complete overview of the recommended substrates in the technical data sheet for the series.

Strong suitability

Series 632 is ideal for indoor applications. So we especially recommend it for the manufacture of **touch panels** – for elevators, scales, audio systems, speedometers or decorative glass on doors or windowpanes. It meets all requirements for industrial applications. With effects that imitate etching and sandblasting, you can achieve a wide range of special finishes and surface textures.

Modern formulations

Series 632 has **optimal technical characteristics.** Designed to satisfy advanced requirements, it offers impressively user-friendly formulations and **modern raw materials.**

All versions are free of aromatic solvents (PAH) and cyclohexanone. The formulations **do not contain halogens,** apart from a few exceptions[2] in certain colors that can only be achieved using halogenated pigments.

[2] You can find the relevant information in the technical data sheet for the series.

Proven resistance profile

Series 632 performed **very well** following 1,000 hours of weathering simulation in a **QUV aging test** chamber. This sees the damaging effects of sunlight, rain and dew that would normally occur outdoors over a period of years reproduced within a few days.

The **chemical resistance** is just as compelling. Abrasion resistance was tested with various cleaners and degreasing agents; there are no signs of abrasion after 500 double rubbing cycles either with methylated spirit or with kitchen cleaner (Potz Expert Power Cleaner).

There were also **very good results in the demanding test with G1 solution**, which assesses resistance to fragrance oils.

Comprehensive product range

Series 632 is already available in many of our standard colors. The **groundbreaking Printcolor mixing system** also allows for a broad spectrum of mixed variants according to color standards like **Pantone, RAL and HKS.**

Article no.	Standard Colors	HP	HF	PF	SF
632-00	ST white opaque, glossy	•	•	•	•
632-00/MT	ST white opaque, mat	•	•	•	•
632-04	ST transparent paste	•	•	•	•
632-05	ST varnish	•	•	•	•
632-05/MT	ST varnish, mat	•	•	•	•
632-33	ST black	•	•	•	•

Article no.	MS Basic Colors	HP	HF	PF	SF
632-1006	MS light yellow	•		•	•
632-1106	MS medium yellow	•	•	•	•
632-1206	MS dark yellow	•		•	•
632-2006	MS orange	•		•	•
632-3006	MS red	•	•	•	•
632-3106	MS magenta red	•	•	•	•
632-3306	MS magenta	•	•	•	•
632-4006	MS violet	•		•	•
632-5006	MS blue	•	•	•	•
632-6006	MS green	•		•	•
632-8006	MS black	•	•	•	•
632-9006	MS white	•	•	•	•
632-07	Binder		•	•	•

Article no.	Standard Metallics	HP	HF	PF	SF
632-100	ST silver	•	•	•	•
632-100/HG	ST high gloss silver	•	•	•	•
632-102	ST rich gold	•	•	•	•
632-103	ST rich pale gold	•	•	•	•
632-103/HG	ST high gloss rich pale gold	•		•	•
632-200	ST mother of pearl	•	•	•	•
632-02299	ST silver coarse	•	•	•	•

Article no.	Special Colors and Effects	HP	HF	PF	SF
632-05/EI	Etch imitation		•	•	•
632-05/SI	Sand blasting imitation		•	•	•
632-05/SV	Scatter varnish		•	•	•
632-05/478	Varnish, high transparent		•	•	•
632-33/DB-KONZ	Disappearing Black		•	•	•
632-33/HD	Black, high opaque, non-conductive		•	•	•
	Pantone®, HKS, RAL and after customers sample				

HP	High pigmented	**PF**	Free of PAH
HF	Free of halogens	**SF**	Silicone-free

Series 140-6125 – the IR-permeable supplement

Our **IR-permeable, silicone-free 2C glass ink Series 140-6125 is the perfect supplement** to Series 632 if you want to coat infrared components such as cell phones and remote controls or print colored decoration on them. **Series 140-6125** achieves excellent opacity while maintaining a high degree of IR transparency.

We are happy to provide detailed information on request, and you can also check our website.

Information on application

All the technical information regarding the application of Series 632, such as **substrate tables, characteristics, product range, auxiliaries, processing, productivity and special features and tips**, is in the relevant technical data sheet. Click the link below or find the data sheet directly on our website.

Compliance with the latest safety standards

Series 632 complies with the requirements of **IKEA specification** IOS-MAT-0066 ("surface coatings and coverings"). All ingredients in the ink are also listed in the **Swiss regulation on consumer goods** (SR 817.023.21). When we developed the product, we focused on using materials free as few harmful substances as possible.

Depending on the area of application, however, more stringent requirements may apply – **printing on toys**, for example, as defined in EN 71-3:2019+A1:2021. Series 632 is generally suitable for toys[3] .

3) To verify compliance with the relevant norm, you have to determine the migration limits on the printed end product.

Printcolor mixing system

When we launched our mixing system over 30 years ago, we **generated proven** added value for you as users. With a precisely calibrated, small amount of **highly pigmented mixing inks** combined with specific functional binders, you can mix countless color variants – in **Pantone, RAL or HKS**. This means that – at reduced costs and with minimized stock volume – you have the whole world of tones and shades at your fingertips: gloss, matte, highly opaque, special effects...[4] If you do not want to do the mixing yourself, we also offer **customer-specific mixing** as a service.

4) The Printcolor mixing system and the available color variants are dependent on the ink series. You can find detailed information in the respective technical data sheets.

easyMEMO software – download free now at www.printcolor.ch/en/easymemo.html

easyMEMO from Printcolor offers you a **color formulation tool** for our mixing system, with the following benefits

› Continually expanding library of color formulations for the most commonly used color series: Pantone, HKS and RAL
› Creation of customer-specific special color formulations with full management options
› Automatic online updates to formulations

FURTHER INFORMATION

Technical Data Sheets
printcolor.ch/tds

More on Series 632
printcolor.ch/series632

Technical Help
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Sales
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