

PLANOCOLOR LIQUID GLASS

Two component self-levelling and transparent epoxy resin, without solvents or water, for creating or protecting decorative layers

- ▶ Two component
- ▶ Without solvents and odorless (VOC 0gr/lt)
- ▶ Self leveling ideal for application on horizontal surfaces
- ▶ Excellent workability
- ▶ Excellent resistance to loads and chemicals
- ▶ It can incorporate logos, 3D painting, pebbles, wall coverings, optic fibers, LED
- ▶ Application without spiked roller
- ▶ Can be mixed with PLANOCOLOR GRANIT in interior
- ▶ Can be used for resin decorative flooring without joints in internal areas



Description

PLANOCOLOR LIQUID GLASS is a two component multi purpose transparent self-levelling epoxy resin suitable for creating high aesthetics horizontal surfaces in internal areas. Due to its special formulation, PLANOCOLOR LIQUID GLASS can receive incorporation of colour granulates, logos, stickers, photos, optic fibres, led lighting stripes, in order to create decorative surfaces. It doesn't develop high temperatures during its polymerization and for this reason it does not damage even sensitive materials as normal epoxy resins do. Furthermore it can be mixed with pigments in powder form such as NOVAGLITTER for creating colored epoxy floors of high aesthetics. PLANOCOLOR LIQUID GLASS is solvent free and for that reason it can be applied in closed areas with human presence during renovations inside offices, schools, apartments and night clubs. After application and when polymerization is completed, it becomes extremely hard with high resistance to water, acids and chemicals. Antiscratch protection is accomplished by applying and maintaining a thin coat of PLANOFINISH PU on the final layer surface.

Typical Applications

PLANOCOLOR LIQUID GLASS can be used as:

- An extremely hard material for creating decorative floors which can receive incorporation of pebbles, colored granulates, shells, stickers, photos, wall coverings, optic fibres, even led lighting stripes in hotels, offices, homes, exhibitions, night clubs.
- Resin flooring with free -style painting without joints in hotel lobbies, offices and night clubs.
- High strength transparent protective coating upon existing old mosaics or surfaces made with pebbles found usually in traditional villages, as long as the application is in internal area and not subjected to rising damp.
- High strength varnish on kitchen benches on top of PLANOCOLOR GRANIT "surfaces".

Application Procedure

Substrate Preparation

The application substrate must be solid, clean and dry, free of dust, loose parts, oil, old paints, rust and other materials that might affect the adhesion of PLANOCOLOR LIQUID GLASS to the substrate. Remove these materials by mechanical means. The application substrate must be dry, compact, level and free of paint and loose parts. In case of cracks in the substrate these must be bonded with the two component epoxy adhesive EPO FLUID. The substrate should be free of rising humidity and must be left enough to mature. In case of absorbent substrates it is recommended to apply WATER PRIMER EPX to the substrate. In case of non absorbent substrates such as old ceramic tiles these must be inspected if they are well bonded

to the substrate and that are not subject to rising moisture from the substrate. Non-absorbent surfaces should be thoroughly cleaned and traces of grease or detached parts must be removed. It is recommended to apply PLANOPRIMER EPOXY prior to the application of the PLANOCOLOR LIQUID GLASS. For further information refer to the relevant Technical Data Sheets of the products.

Preparation of the mix

Component A (resin) and B (catalyst) are already in the correct proportions. Pour all the comp. B into a bucket containing the comp. A and mix by using an electrical mixer in low rpm (300 rpm) for 2 - 3 minutes. It is important to mix carefully both the bottom and the lateral sides of the bucket in order for the catalyst to spread evenly. Let the mix rest for a few minutes and proceed with the application taking care of the working time of the mix. The mixing ratio and never should be attempted partial mixing of the two components.

Application of the mix

As a protective layer

Apply the mix in an amount that overlaps the surface of the mosaics pebbles or other. In case of large cavities in the surface (more than 5mm), the application of the mix must be done in subsequent layers in order to avoid air bubbles to be trapped inside the mass of PLANOCOLOR LIQUID GLASS during the filling process. Otherwise there is great chance of these bubbles to rise on the surface when the mix starts to hardens, creating holes in the final surface, or that the product to become yellowish.

For creating colored surfaces (resin flooring)

Mix the two components of PLANOCOLOR LIQUID GLASS, until a homogeneous mix is obtained. Let the mixture rest for 2 to 3 minutes and then add pigment in powder form such as NOVAGLITTER or in liquid form like NOVACOLOR UNIVERSAL. Mix again and if more intensive color or shiny surface is required then add or scatter appropriate quantity of GLITTER. Since PLANOCOLOR LIQUID GLASS is self-levelling it is recommended to do the application on one single layer for the total surface without the use of spiked roller and for maximum thickness of 5 - 6mm. If a coloured background is required you can apply PLANOCOLOR EPOXY mixed with FLOW POWDER EPX and then PLANOPRIMER EPOXY prime the surface with. The application of the mix is always done upon horizontal surfaces that must prior been sealed correctly in the perimeter, in order not to allow to the self-levelling PLANOCOLOR LIQUID GLASS mix to escape from the formwork. While laying the mix do not use rollers with fibers or spikes that may leave residues and always make sure that the area is closed and clean, ensuring that no deposits of dust, insects, etc. will accumulate on the fresh mix surface. Due to the long setting time of PLANO-

TECHNICAL DATA

Product Identification

Consistency	self leveling liquid
Color	transparent
Specific gravity	1,05 gr/cm ³
Viscosity	600 mPas at +23°C
Chemical base	two components epoxy resin
Storage	12 months

Application data (+23°C and 50% R.H.)

Mixing ratio (A:B)	6,5 : 3,5
Pot life	approx. 90 min
Minimum hardening temperature	+10°C
Set to light foot traffic	after 24 hours
Walkability	72 hours
Final setting	7 days

Final performances

SHORE D hardness	75 - 80
Final strenght	after 7 days at +23°C
Fire behaviour EN 13501 - 1	F

- Do not apply PLANOCOLOR LIQUID GLASS on wet substrates, or substrates where rising damp is present or evident.
- Never apply PLANOCOLOR LIQUID GLASS as a final layer prior to the bonding of resilient coverings (wood, carpet, rubber, and linoleum).
- Do not apply PLANOCOLOR LIQUID GLASS in external areas.
- Always take care to eliminate air bubbles developed during mixing of the components without the use of a spiked roller. Due to the materials long setting time air bubbles will have the time to "evaporate" if the maximum thickness is 5 - 6mm.
- Do not apply PLANOCOLOR LIQUID GLASS in vertical or surfaces that are not horizontal. The mix is self-levelling and must be applied upon the surface which is correctly sealed in its perimeter by appropriate form-work.
- When incorporating various objects make sure that they are completely dry as well as they are not altered chemically when in contact with epoxy resins.
- The application area must be clean, free of dust and insects that might rest upon the fresh mix.
- Do not apply the mix in a thickness smaller than 1,5 - 2mm.
- Do not apply the mix in layers higher than 6mm in one single coat. Apply subsequent layers.

Warning

The technical data and recommendations contained in this leaflet correspond to the best of our knowledge and experience. All the above mentioned information in any case should be considered as merely indicate and subject to confirmation after long term practical applications. For this reason anyone interested of using the product must be sure before hand that the product is suitable for the envisaged application. In every case the user alone is fully responsible for any consequences deriving from the use of the product. We retain the right of renewal of the data of the leaflet without warning. For the latest and valid version of the Technical Data Sheet refer to use website www.novamix.gr or directly to the following QR code of the product.

ONLY FOR PROFFESIONAL USE

Safety Instructions

For further information please refer to the Safety Data Sheet of the product.

COLOR LIQUID GLASS the air bubbles will have the time to evaporate without the use of spiked roller in layers of max thickness 5 - 6mm.

Incorporating various objects

Mix the two components of PLANOCOLOR LIQUID GLASS and then add while stirring at low speed, 5kg of sand H330, until a homogeneous mixture is obtained. Sand H330 is white and that's why its used as a background for incorporating various objects such as pebbles, logos, optic fibers, led lighting stripes, stickers, photos, shells, etc. If no background is required, in applications where the substrate needs to be shown (i.e. tables, benches, etc), then we place the incorporating objects directly on the surface and we apply the mix of PLANOCOLOR LIQUID GLASS directly without sand, covering totally the objects. In case we want a colored background then we must add to the mix pigments in powder form such as NOVAGLITTER or in liquid form such as NOVACOLOR UNIVERSAL. After 24 hours of creating the background and within 72 hours we can step carefully on the floor without shoes and place the objects making sure they are not altered chemically when in contact with epoxy resins. Mix the two components PLANOCOLOR LIQUID GLASS and apply the mixture to a thickness sufficient to cover the placed objects. The minimum thickness of the mixture should ensure that the layer of PLANOCOLOR LIQUID GLASS will be able to protect the objects from the loads that the floor will accept. The surface created in this way can be rest to light foot traffic after 72 hours and develops its final strength after 7 days.

Combination with PLANOCOLOR EPOXY

PLANOCOLOR LIQUID GLASS can be combined with PLANOCOLOR EPOXY in all the above mentioned cases, depending on the desired result and thickness. Normally PLANOCOLOR EPOXY mixed with FLOW POWDER EPX is used as colored background in a thickness of 2 - 10mm and after priming with PLANOPRIMER EPOXY the total surface is covered with PLANOCOLOR LIQUID GLASS. For additional information contact our Technical Support.

Surface Maintenance

Although PLANOCOLOR LIQUID GLASS has high mechanical strength it can be scratched as normal epoxy coating. In order to protect the surface it is recommended to apply a thin coat of PLANOFINISH PU MAT. Maintenance with PLANOFINISH PU MAT can take place after scratches start to appear again on the floor depending on the usage.

Consumption

1,0 - 1,1L/m²/mm of thickness.

Cleaning

Tools and containers should be cleaned immediately with plenty of clean water and alcohol. Once PLANOCOLOR LIQUID GLASS dries cleaning can be done only by mechanical means and strong solvents.

Packaging

Comp. 11L (A: 6,6 + B: 4,4)L and 1L (A: 0,60 + B: 0,40)L both in metallic pots. The two components are already in the correct proportions. Never mix them partially.

Storage

PLANOCOLOR LIQUID GLASS remains stable for at least 12 months in the original sealed packaging protected from frost and direct sun light. Recommended storage temperature between +5°C and +35°C.

Recommendations

- Do not mix PLANOCOLOR LIQUID GLASS with cement, water, solvents, resins or other binders.
- The two components are already in the correct proportion. Never mix partially the two components otherwise there is danger that the product will not set properly.



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