

Product Information

SurACer® 4460 - ... even better adhesion and lower viscosity



SurACer® 4460 RoHS coating resin is compliant in accordance with EU Directive 2011/65/ EC. All starting substances have been pre-registered according to the REACH Regulation (EC) No. 1907/2006.

The **SurACer® 4460** doming resin is a solvent-free, low-viscosity two-component protective coating, based on a highly reactive SH/en system and is the new development of the successful SurACer® 4450 doming resin. The innovative material provides even better properties, improving the adherence, simplifying the processability, as also enhancing the decorative effect of the material.

The new **SurACer® 4460** coating resin provides a much lower viscosity (almost the half to that of its predecessor), which contributes to a better flow of the liquid material, making the application of the resin much easier with both manual and automatic dispensing techniques. The already high adherence of the material has become greater, providing a stronger bond between the resin and the foil used. The doming resin enhances the material's three-Dimensional effect due to higher transparency, coming from the even lower inherent color of the resin. The material's hardness has become greater to ensure a higher surface protection, retaining, at the same time its flexibility. Also, the decenter odor of the resin leads to a pleasant material processing.

The new **SurACer® 4460** coating resin provides combination of properties, such as:

- Isocyanate-free components (reduction of skin irritations & ecological load)
- Light-curing (very fast curing process)
- Very long pot-life (very easy handling)
- Stable towards UV and climate (suitable for outdoor use)
- Even higher adhesion (longer coating lifetime) ^{NEW}
- Lower viscosity (easier material application) ^{NEW}
- Even higher transparency (greater 3D optical effect) ^{NEW}
- High flexibility at greater material hardness (broader field of application) ^{NEW}
- Decent resin odor (pleasant processability) ^{NEW}

Take advantage of the excellent properties of **SurACer® 4460** and provide to your doming labels, 3D stickers and other promotional items in any size, shape or color, a higher quality, a visual value and that extra feel of luxury.



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The light-curing and Isocyanate-free **SurACer® 4460** doming resin impressively enhances the decorative effect of printed motives on a broad application field, such as polyester-, PVC-, metallic foils, as well as on aluminum and plastics.

The absence of Isocyanate components prevents from skin irritations while working with the material, as also does not require additional safety procedures while, transporting, storing or disposing it. In the case of commonly used polyurethane and Epoxy doming resins, additional costs are required for extra safety procedures. The UVA curing process of the **SurACer® 4460** doming resin is performed by the SurALux light-curing device series in a very short time (5-10 min.) and provides transparent, flexible and optically brilliant protective coatings for screen-, digital, sublimation- or transfer printings applications. After the mixing of its two components, **SurACer® 4460** has a very long pot-life of five days and, thus, a very long processing time. Additional benefits arise from the elimination of regular equipment cleaning-operations, affecting excessively the economic and productive aspect.

The **SurACer® 4460** doming resin can be applied either manual or automatic, with continuous or intermittent process techniques. For more information concerning doming workstations, consult SurA Chemicals GmbH.

Preparation

Homogeneous mixing of components 1 and 2 (weight ratio 1:2)

Cure

Irradiation 5 - 10 min (depending on thickness) with the SurALux light-curing device series, in formats up to DIN A3

Storage

The components 1 and 2 of **SurACer® 4460** can be safely stored for at least 6 months at a maximum temperature of 20 °C with light excluded. Its mixture can be safely stored for up to 5 days under refrigerated storage and light excluded

Delivery form

Plastic bottles of 1 kg, 5 kg, or 15 kg content



*The processing of the **SurACer® 4460** doming resin is described on the material's application information document.*

SurA Chemicals GmbH guarantees its products to be of perfect quality as stated in its general terms and conditions of sale and delivery. For eventual questions or additional information concerning **SurACer® 4460**, we encourage you to get in touch with SurA Chemicals GmbH.