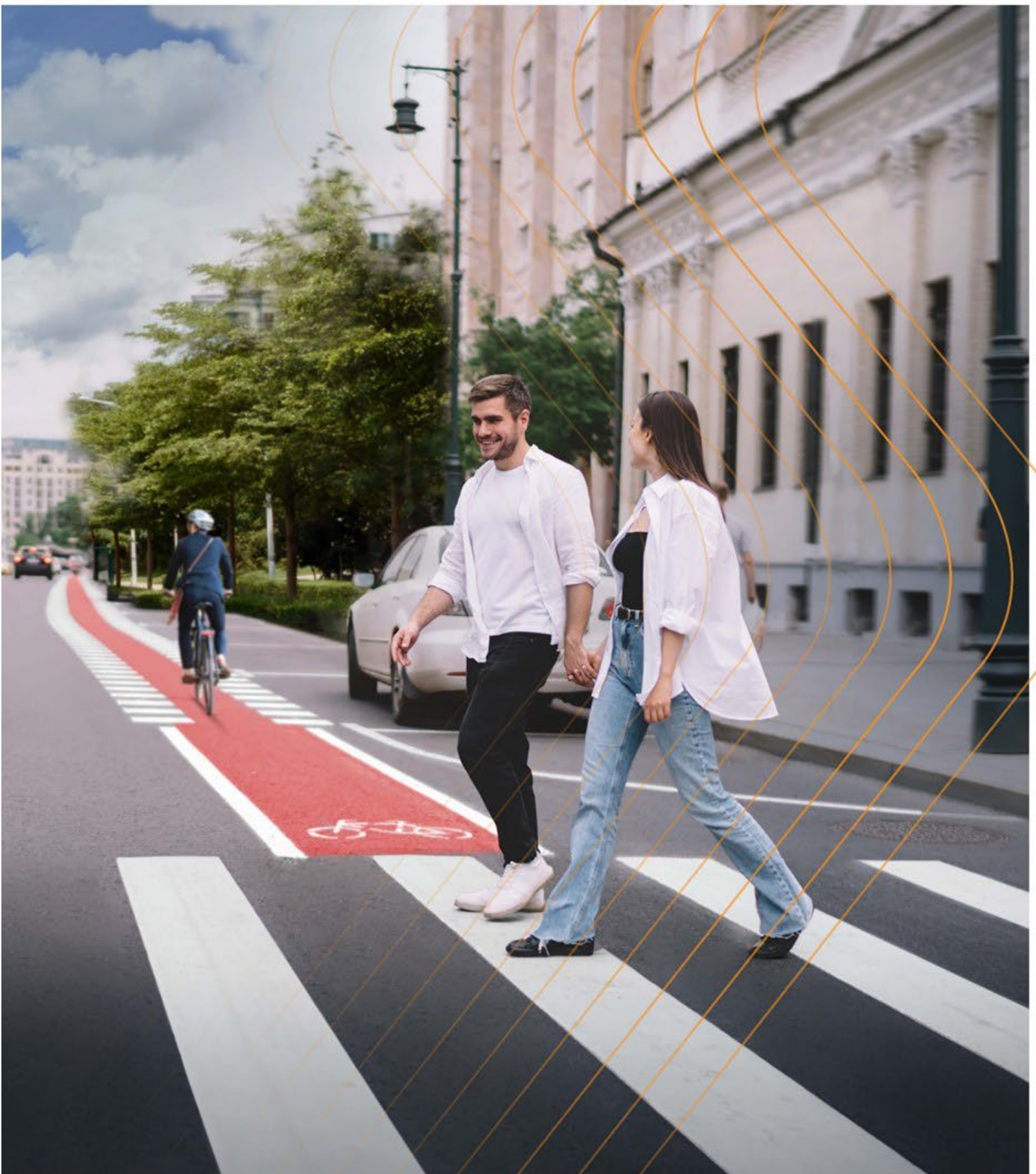


TECHNICAL INFORMATION

2-C UV-Clear Varnish



2-C UV-CLEAR VARNISH

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Important Information:

Please consider our General Terms and Conditions and the general notes of the Technical Information Sheet! No liability is accepted for any errors! The information is provided to our best knowledge and experience. This information is, however, no warranty for any properties of the material. We provide this information without obligation, also regarding the rights of third parties. The user has to make sure that the material is appropriate for the respective application.

1 Main characteristics / Fields of application

2-Component UV-Clear varnish...

- is a solvent-containing, aromatic-free 2-component clear varnish based on acrylic polyols in combination with an aliphatic polyisocyanate
- is distinguished by its chemical reaction resulting in extended durability, resistance against chemicals and abrasion. Chemical reaction takes place besides physical drying through evaporation of solvent
- the transparent clear varnish surface is applied on top of car park markings and other indoor markings
- reduces the attraction of dirt on markings exposed to heavy traffic impact and increases abrasion resistance (e. g.: for H145 or 2-comp. indoor paints)
- extends useful life for non-UV-stable markings due to its enhanced UV-protection properties (e. g.: for afterglow and fluorescent paints)
- suitable for airless and airspray technique. Of limited use for manual application with roller or brush

2 Technical Data

Color	transparent
Density	approx. 1.01 kg/l +/- 0.04 kg/l (with SWARCODUR hardener)
Potlife	approx. 1.5 h, depending on weather conditions (temperature, humidity, wind), surface temperature and applied film build.
Solid content	min. 50%
Mixing ratio	Base component 2-comp. UV-Clear varnish : hardener (SWARCODUR PU/ACRYL) = 2 : 1
Curing time	min. 8 h (or overnight) That are laboratory values that may differ from field conditions depending on climate (temperature, humidity, wind), material, layer thickness and surface. In general the marking's trafficability must be checked before exposing it to traffic impact.
Thinner	When needed add max. 5% Thinner PU/ACRYL (Art. No.: 8630) for optimizing spray properties.
Thinner for cleaning	For cleaning of machine and tools use Special cleaner for marking machines (Art. No.: 3086) or Thinner PU/ACRYL (Art. No.: 8630)
Storage stability	6 months (unmixed), in sealed original packaging; protect from frost and direct sun light
Standard packaging	2-comp UV-Clear varnish: tin foil cans with 1/5/10 l SWARCODUR PU/ACRYL: cans with 0,5/2,5/5 l (corresponds with mixture ratio)
Identification	The regulations and instructions concerning appropriate transport, handling, storage, first aid measures, toxicology and ecology are stated in our material safety data sheets! The instructions stated on the product label and in the MSDS must be followed.
Processing temperature	min. +10°C
Surface temperature	+10°C to +45°C
Relative humidity	max. 75 % (dew point spreadsheet has to be regarded)
Layer thicknesses	max. 100 µm
Theoretical consumption	approx. 0.10 kg/m ² ; the actual consumption depends on the applied layer thickness and the type and state of the surface

3 Surfaces / pretreatment

The marking surface must be dry, clean, free from grease, oil and loose gravel and other contaminations. Existing old markings must be checked for their carrying capacity and compatibility with the material to be applied. Our marking products are approved in combination with 2-C UV clear varnish. It is recommended to spray the 2-C UV clear varnish as soon as the marking is cured and solvents have evaporated (cold plastic, 2-C marking paints) in order to avoid curing failures.

4 Application techniques / processing instructions

Before processing 2-C UV clear varnish must be homogenously stirred in its original container. Then the hardener (8620) must be added und stirred uniformly into the base component at the stated mixing ratio (2:1). The exact machine adjustments depend on application conditions, type of machine (airless or airspray), spray nozzle, max. 100 µm specification and must be made according to the machine manufacturer's instructions. Prior to marking interruptions remove the clear varnish mixed with hardener from the machine (regarding the very short potlife and fast curing properties).

The cleaning needs to be done before applying 2-C UV-clear varnish with Thinner PU/ACRYL (Art.-No.: 8630) or Special cleaner for marking machines (Art.-No.: 3086) exclusively. Avoid any blending with other marking materials or thinners. It is recommended to use / remove remaining clear varnish first before refilling newly mixed clear varnish. Cleaning of machine (paint tank and hoses) and tools must take place in time before the fast curing occurs. It is important to apply the max. of 0.1 mm layer thickness evenly, and to avoid higher layer thickness otherwise curing time will be prolonged. It is recommended to apply test markings to control all parameters particularly the limited layer thickness.

Manual application might cause higher thickness and / or cause the formation of bubbles. After application allow for enough curing time, since the chemical reaction needs to complete. Otherwise traffic impact may cause soiling.