TECHNICAL INFORMATION

SWARCO AQUALINE ECO 2-C Indoor

swarco
Road Marking Systems

SWARCO AQUALINE ECO 2-C Indoor

Art.-No.: 11720 white
Art.-No.: 27…. (RAL) coloured

Version: 2025-07-10

1 Main characteristics / Fields of application

SWARCO AQUALINE ECO 2-C Indoor …

- is a waterborne, environmentally sound two-component dispersion paint on acrylate-epoxy basis
- is suitable for synthetic resin substrates, as well as concrete ceilings
- can be applied with all currently available application machines
- is characterized by good drying properties, neutral odor, good abrasion resistance, as well as excellent covering power

2 Technical data

Color	White, (other colors upon request)
Density	approx. 1.60 kg/l +/- 0.04 kg/l
Mixing ratio	base component SWARCO AQUALINE ECO 2-C Indoor : SWARCODUR AQUALINE 2-C Indoor = 100 : 7
Curing time	Approx. 50 min at 300 µm, in practice the drying time may vary depending on the climatic conditions (temperature, humidity, wind conditions), the material and ceiling temperature, and the wet film thickness. The markings must be tested for rollover before being released for traffic.
Potlife	max. 1 day
Solid content	≥ 74%
Volume-solid	approx. 58%
Solvent content	≤ 4,5%
Water	≤ 23%
Thinner	max. 1% water for viscosity adjustment
Storage stability	6 months (unmixed), in sealed original packaging; protect from frost and direct sun light
WOT (Wash-out-time)	approx. 60 min after application depending on film thickness and climatic conditions.
Identification	The regulations and instructions concerning appropriate transport, handling, storage, first aid and measures, toxicology and ecology are stated in detail in our material safety data sheets! The instructions stated on the product label and in the MSDS must be followed.
Standard packaging	**SWARCO AQUALINE ECO 2-C Indoor:** plastic container of 25 kg filling weight Other container / filling weights on request **SWARCODUR AQUALINE 2-C Indoor:** plastic container of 1,75 kg filling weight (corresponds with mixing ratio)
Processing temperature	min. +10°C to max. +35°C
Surface temperature	+10°C to +45°C
Rel. humidity	max. 75% (dew point spreadsheet has to be regarded)
Layer thickness / Theoretical consumption	Wet film thickness = Dry film thickness = Theoretical consumption 300 µm = 174 µm = approx. 0,48 kg/m² (0,3 l/m²) The actual consumption depends on the applied layer thickness and the type and state of the surface

3 Processing instructions

3.1 Preparation of material and application technique

Before processing SWARCO AQUALINE ECO 2-C Indoor must be **homogenously** stirred in its original container. Then the hardener SWARCODUR AQUALINE 2-C Indoor must be added und stirred uniformly into the base component at the stated mixing ratio (100 : 7).

The exact machine adjustments depend on application conditions, type of machine, requested wet film thickness and need to be made according to the machine manufacturer's instructions. The theoretical consumption of the paint is listed in the table "Theoretical consumption of material and drop-on materials" on our website in kg/m² as well as in kg/km of line to be marked depending on typical line width. The cleaning of machine (paint tank and hoses) and tools must take place before the curing is finished, with water exclusively. Avoid intermixing with other thinners or marking materials.

Note: All devices and tubes must be totally free from paint residues and solvents before SWARCO AQUALINE ECO 2-C Indoor is applied! All devices and tubes must be totally free from old paint residue and solvents. Do not use equipment that has any brass or copper parts. Stainless steel parts are recommended.

Before using waterborne paints, we recommend to clean equipment and machinery used earlier for solvent-based paints in the following three steps:

1. Rinse thoroughly with solvent (Art.-No. RH10010 Acetone)
2. Rinse with industrial alcohol or an alcohol / water mix (Art.-No. RH10070 Ethanol)
3. Rinse with plenty of water

At each work interruption the nozzles must be cleaned. Once the work is completed, the machine must be thoroughly rinsed. Immediately after the application of waterborne paints, equipment and machinery must be cleaned in reverse order to prepare them for the use of solvent-based paints. Before longer marking interruptions remove any paint mixed with hardener.

3.2 Optimizing of application properties

The paint is ready for processing upon delivery. In general, it is not necessary to add thinner but for optimizing the material's spray properties add max. 1% water.

Remaining SWARCO AQUALINE ECO 2-C Indoor (from the day before) must be applied completely before new paint is filled into the machine's paint tank. Use thinner recommended by the manufacturer only.

3.3 Rain resistance / WOT (Wash-out-time)

In contrast to other marking materials and in addition to trafficability, rain resistance must be considered when working with waterborne paint. Rain resistance / WOT describes the time beyond trafficability / curing time after which waterborne paint is resistant against weather-related influences and after which it can no longer be washed out. It is recommended to apply water-soluble marking systems only under stable weather conditions without the probability of rain.

4 Surfaces / pretreatment

4.1 General information

The surface must be dry, clean, free from grease, oil and loose gravel and other contaminations. The surface and potentially existing old markings must be checked for their carrying capacity and compatibility with the material to be applied. In case of doubt, test applications and adhesion tests are required. Ideally, old markings should be removed with appropriate mechanical procedures.

Coloured marking materials may fade after some time of outside exposure. This is a normal effect caused by sun exposure, water, road salt, dew, condensed water and heat. Constant traffic impact reduces bleaching and shift of color intensity, but is not able to prevent fading completely. See our elaborations on that subject in our “General notes on technical information sheets”.

Attention: SWARCO AQUALINE ECO 2-C Indoor is not appropriate for large area applications on bituminous surfaces (e. g. playground, sportsground, cycle path or similar).

4.2 Concrete and cement-bound surfaces

The pavement components in new road surfaces that prevent good bonding (fine mortar layer, concrete slurries) must be appropriately removed (e. g. with high pressure waterjet, fine millcut or similar).

When applying the paint to concrete or cement-bound surfaces, bubble formation is likely occur. In order to prevent the formation of bubbles the concrete should be pretreated with SWARCO AQUALINE ECO 2-C Indoor blended 1:1 with water as a primer (approx. 200µm). The humidity of the concrete must not exceed 4% during the marking work. After precipitations a waiting period of minimum 48 hours is recommended.

4.3 Bituminous surfaces

This product is not suitable for bituminous surfaces. Please use one of our outdoor solutions on these surfaces.

4.4 Cobbled pavement

Natural, artificial and compound stone pavements are non-static surfaces. They are not suitable surfaces for SWARCO AQUALINE ECO 2-C Indoor. No guarantee is given in cases of: crack formation, chippings caused by the movement of pavement parts, poor marking bonding (e. g. natural or artificial stones), penetration of moisture, wear of marking.

4.5 Floor coatings

Synthetic resin floor products usually consist of epoxy resins or polyurethane. They are differentiated into sanded and non-sanded coatings. Such coatings must be considered as critical surfaces. If the synthetic resin coatings are older than 3 days, it is essential for a successful application of SWARCO AQUALINE ECO 2-C Indoor that the floor is roughened with adequate means (e. g. blastrac, fine millcut or grinding). If the marking is applied within 2 days after the coating application, roughening is not necessary. Due to the variety of different coatings we recommend to conduct test applications and bonding checks and to check the coating’s technical Information, since the data sheets often provide valuable hints.

5 Application technique

With conventional marking machines (airless or atomizing / airspray technique), manually with brush or roller. For airless machines use airless quality only.

Attention: When applying with brush, roller or spray gun (e. g. jobs with stencils) consider the paint's fast drying time.

SWARCO AQUALINE ECO 2-C Indoor must be homogeneously stirred in its original container. Then the liquid hardener is mixed with the base component at the indicated mixing ratio using an appropriate stirring device. Never prepare more material with hardener than is needed for the application (observe pot life).

The exact machine adjustments depend on the application conditions, type of machine, requested wet film thickness and need to be made according to the machine manufacturer's instructions.

When the applied SWARCO AQUALINE ECO 2-C Indoor has dried completely, it is recommended to apply a second layer of approx. 120µm SWARCO AQUALINE ECO 2-C Indoor clear varnish in order to improve the abrasion resistance and dirt-repellent characteristics and to get a highly glossy surface.

Attention: Machine-applied markings in car parks or factory facilities might not allow marking near walls for technical reasons. It is recommended to resolve whether the costly manual completion of the striping is required. The uniform spread of marking material over the entire application surface must be observed.