TECHNICAL INFORMATION

SWARCO AQUALINE ECO Easy2Remove

swarco
Road Marking Systems

Road Marking Systems

SWARCO AQUALINE ECO Easy2Remove

Art.-No.: 11730 Airless, white
29R…. (RAL)

Version: 2023-10-17

1 Main characteristics / Fields of applications

SWARCO AQUALINE ECO Easy2Remove…

- is a water-thinnable, environmentally sound waterborne paint
- is suitable for both bituminous (e. g. mastic asphalt, asphaltic concrete) and concrete surfaces
- is suitable for applications with airless and atomizing techniques
- is characterized by good drying properties, easy demarking and excellent covering power
- suitable for the application of temporary markings such as guidance systems for one-day events, markings on test sites with frequently changing traffic arrangements, etc.

2 Technical data

Color	White, other colors upon request
Density	approx. 1.74 kg/l +/- 0.04
Solid content	≤ 71%
Volumen solid content	approx. 50.38%
Solvent-content	max. 2%
Thinner	max. 2% water to optimize the material's properties. Cleaning of equipment and machinery with water
Storage stability	6 months, in sealed original packaging; protect from frost and direct sun light
Overrollability / curing time	The drying times are laboratory values that may differ from field conditions depending on climate (temperature, humidity, wind), material, layer thickness and road surface. In general, the markings' overrollability must be checked before exposing them to traffic impact.
WOT (Wash-out-time)	approx. 30 minutes after application depending on layer thickness and climatic conditions.
Standard packaging	Plastic container with 25 kg filling weight Larger container upon request Other tin container / filling weights on request **Drop-on material:** paper bags with PE inlay – 25 kg filling weight
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.
Processing temperature	min. +10°C
Surface temperature	+10°C to +45°C
Rel. humidity	max. 75% - (dew point spreadsheet has to be regarded)
Layer thickness / Theoretical consumption	Layer thickness = dry film thickness = Theoretical consumption 300 µm = 151 µm = approx. 0,52 kg/m² (0,3 l/m²) 400 µm = 202 µm = approx. 0,70 kg/m² (0,4 l/m²) 600 µm = 302 µm = approx. 1,04 kg/m² (0,6 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 techniques

The SWARCO AQUALINE ECO Easy2Remove has to be **homogeneously** stirred in the original container. The exact machine adjustments have to be done according to the manufacturer's instructions. Layer thickness and quantity of drop-on material need to be evenly

distributed. Scattering losses on both line sides make modified machine adjustments necessary.

Note: All devices and tubes must be totally free from paint residues and solvents before SWARCO AQUALINE ECO Easy2Remove is applied!
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.

3.1 Optimizing of application properties of water paint

The SWARCO AQUALINE ECO Easy2Remove in its delivery state is ready for processing. Usually, the addition of thinner is not necessary. It is, however, possible to optimize the material's spray properties by adding max. 2% water as thinner.

3.2 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 Road surface / pretreatment

4.1 General information

The surface must be dry, clean, and free from grease, oil and loose gravel and other contaminations. The surface and potential 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 bonding checks are required. Ideally, old markings should be removed with appropriate mechanical procedures.

4.2 Concrete or 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). In the case of new exposed concrete road surfaces (with a chippings surface),

adhesion problems may nevertheless occur which are not due to the marking material. It is recommended that test markings be made, and concerns raised if necessary.

The application of water-thinnable marking paints (dispersions) on steel fibre concrete is not recommended. Blistering may occur when applied to concrete or cementitious substrates (including interlocking paving stones). To minimise blistering, the intended marking paint SWARCO AQUALINE ECO Easy2Remove can be mixed 1:1 with water and pre-sprayed as a primer (approx. 200 µm). After drying, SWARCO AQUALINE ECO Easy2Remove is applied undiluted as a second coat.

The moisture content of the concrete must not be higher than 4% when marking. After precipitation or high-pressure water milling, the use of professional drying equipment or a waiting period of at least 48 hours is recommended. If a traffic clearance marking is applied immediately instead of the above-mentioned substrate pre-treatment, the load-bearing capacity of the substrate must be ensured before applying the final marking. If necessary, the substrate must be pretreated or the traffic clearance marking demarked using the above-mentioned methods.

4.3 Bituminous surfaces

Any loose components such as chippings must be removed. Fluxoils of new bituminous surfaces are detrimental to the good bonding of markings and may lead to discoloration of the striping. Since these oils are hardly removable mechanically, the surface should either be exposed to traffic for 4–6 weeks or initially be marked with paint.

4.4 Cobbled pavement

All kind of cobbled pavements are moveable surfaces. That can lead to crack formation or spallings on the marking. Material is used without any manufacture guarantee. Test applications, surface pretreatments are recommended. Cobbled pavement must ensure proper bonding.

4.5 Floor coatings

For markings on floor coatings our SWARCO SAFETY-LINE products should be used.
SWARCO AQUALINE ECO Easy2Remove is not suitable for floor coatings.

5 Application techniques

With conventional marking machines with stainless steel equipment (airless or atomizing technique), manually with brush or roller. The marking paint must be homogeneously stirred in the original container before processing! The exact machine adjustments depend on the application conditions and the machine type and should be made according to the machine manufacturer's instructions. The uniform spread of marking material and drop-on material over the entire application surface must be observed. Layer thicknesses and drop-on material quantities must be respected.

6 Demarking

It is possible to remove the paint with a commercially available high-pressure water cleaner. The pressure to be selected must be determined on site. Experience shows that a pressure of at least 100 bar is sufficient.

7 Warranties

Temporary markings that are particularly easy to demark are excluded from warranty due to their nature.