

**swarco**   
SWARCO VICAS



**high performance  
ROAD MARKINGS**



## A Reliable Partner

SWARCO VICAS S.A. Romania is a member of SWARCO AG GROUP Austria, one of the world's most important specialists in road marking, signaling and traffic management products, services and solutions with more than 40 years experience.

The origins of the SWARCO group date back to 1969 when Manfred Swarovski built his first factory for the production of glass beads in Amstetten / Lower Austria. Glass beads continue to play a vital role when it comes to the clear visibility of road markings at night.

In the past four decades, the group expanded both geographically and productwise. Today, SWARCO is one of the biggest worldwide traffic signals and glass beads producers, involving actively in glass recycling processes, developing LED-based technology for traffic signals and offering quality services in the traffic and control systems management.



In 2006, SWARCO AG GROUP acquired the Romanian paint & varnishing producer VICAS S.A., which changed its name to SWARCO VICAS S.A. Today, SWARCO VICAS S.A. is the biggest Romanian producer specialized in road marking paints.

SWARCO VICAS produces and sells a wide range of road marking paints, from waterborne and solventborne paints to bicomponent and thermoplastic systems. SWARCO VICAS also sells high quality reflective glass beads customized for different types of road marking systems.

## Why SWARCO VICAS?



- ⇒ High quality products with international and Romanian homologation, successfully tested in real traffic conditions;
- ⇒ Fast deliveries regardless of the location;
- ⇒ Application demos with own products;
- ⇒ Professional consultancy and technical support whenever is required;
- ⇒ A reliable partner;
- ⇒ Optimal solutions according to customer's requirements;
- ⇒ Best quality/price ratio.

# SWARCOMARK SV 100

# WATERBORNE ROAD MARKING PAINT

## Product description

The SWARCOMARK SV100 is a second generation road marking paint based on high performance acrylic resins, with fast drying time, suitable for highways and airports. Due to its water content, the paint is environmentally friendly .

The paint has fast drying time and a wet film thickness of 300µm-600µm.

The most important physical properties for industrial marking, such as Drying Time (no pick up time) and Wash-Out-Time resistance (rain resistance), are far better compared to most traditional waterborne systems.

The paint has a high retro-reflection during night time and improved system (road marking + beads ) durability due to SWARCOFLEX T15 glass beads.



## System advantages

- excellent adhesion to concrete and asphalt surfaces;
- fast drying in high humidity and cold weather conditions;
- film without cracks and with improved wear resistance;
- improved adhesion to SWARCOFLEX T15 glass beads and
- improved reflection; very good resistance to salt, water and petroleum based products;
- high durability (the system is BaSt certified for 2 mil. Crossings).

## Technical information:

1. Air / Ground temperature requirements: - Air: min. +8° C, Asphalt: 5-45° C, Humidity: up to 90%
2. Wet film: - 300 µm - 600 µm
3. Drying time at 20°C:  
75% relative humidity - 10-30 minutes  
Drying times may vary according to the climatic conditions (temperature, humidity, wind), film thickness, surface type and quality.
4. Paint and glass beads consumption: - see Table 1

## Application instructions:

### 1. Road surface/pretreatment

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. Test applications and bonding checks are recommended. In case of marking on existing old markings, the drying/curing of SWARCOMARK SV100 might be delayed.

#### - 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 water jet, fine mill cut or similar). When applying the material to concrete or cement bound surfaces (also pavements), the formation of bubbles is likely to occur. In order to prevent the formation of bubbles, the concrete should be pre-treated with appropriate primers.

#### - Bituminous surfaces

Any loose components such as chippings must be removed. Flux oils of new bituminous surfaces are detrimental to the good bonding of markings and accordingly can lead to discoloring of the marking. As a mechanical removal is hardly possible, the surface or the provisional paint marking should be under traffic impact for 4 – 8 weeks, before applying the marking

2. Adhesion: ATTENTION: - when applying on old existing markings (thermoplastic, alkydic or chlorurated rubber) adhesion problems may occur. In this cases it is recommended the usage of the corresponding primer.

### 3. Application Procedure

With conventional standard/pneumatic marking machines for SWARCOMARK SV100 or 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. Layer thicknesses and drop-on material quantities must be respected.

4. Thinner: If dilution is needed don't use more than 2% WATER.

5. Cleaning the equipment and machinery:

ATTENTION: All devices and tubes must be totally free from paint residues and solvents before SWARCOMARK Sv100 is applied!

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

- rinse thoroughly with solvent
- rinse with industrial alcohol or an alcohol / water mix
- rinse with plenty of water

When it is necessary to apply solvent borne road marking paint after a water borne paint application the above steps should be followed in the reverse order. At every stop of the machine it is recommended to clean the nozzles. After applying the marking, wash thoroughly the machine.

Attention: Use only stainless steel for the machine parts which come in contact with the paint.

Table 1

Material	Consumption gr/sqm			Glass Beads Type
	Wet film	Paint	Glass Beads	
SWARCOMARK SV100	300 µm	507	300	SWARCOFLEX T15 100-800 SWARCO T15 MK30 150-850
	400 µm	676	300	SWARCOFLEX T15 100-800 SWARCO T15 MK30 150-850
	600 µm	1014	600	SWARCOFLEX T15 100-800 SWARCO T15 MK35 600-170

Note: the consumption rates from the above Table are relative and do not include the losses during the applications.

## HOMOLOGATIONS

- ❖ ROMANIA: - INCERTRANS Technical Certificate
- ❖ GERMANY: - BAST nr. 2007 1DW 07.15
- BAST nr. 2007 1DW 07.16

## REFERENCES

- ❖ ROMANIA:
  - markings in: Boto ani, Târgu Mure , Târgovi te;
  - DN: 5C, 61, 65, 65B, 71, 72, 73



SWARCO VICAS

S.C. SWARCO VICAS S.A.  
Târgoviște, Șoselele Gălbene, nr.8, jud. Dâmbovița, ROMÂNIA  
Tel: 0245-614345, Fax: 0245-213796  
e-mail: [sales.vicas@swarco.com](mailto:sales.vicas@swarco.com)

[www.swarco.com](http://www.swarco.com)