



SWARCO | The Better Way. Every Day.



DROP-ON GLASS BEADS

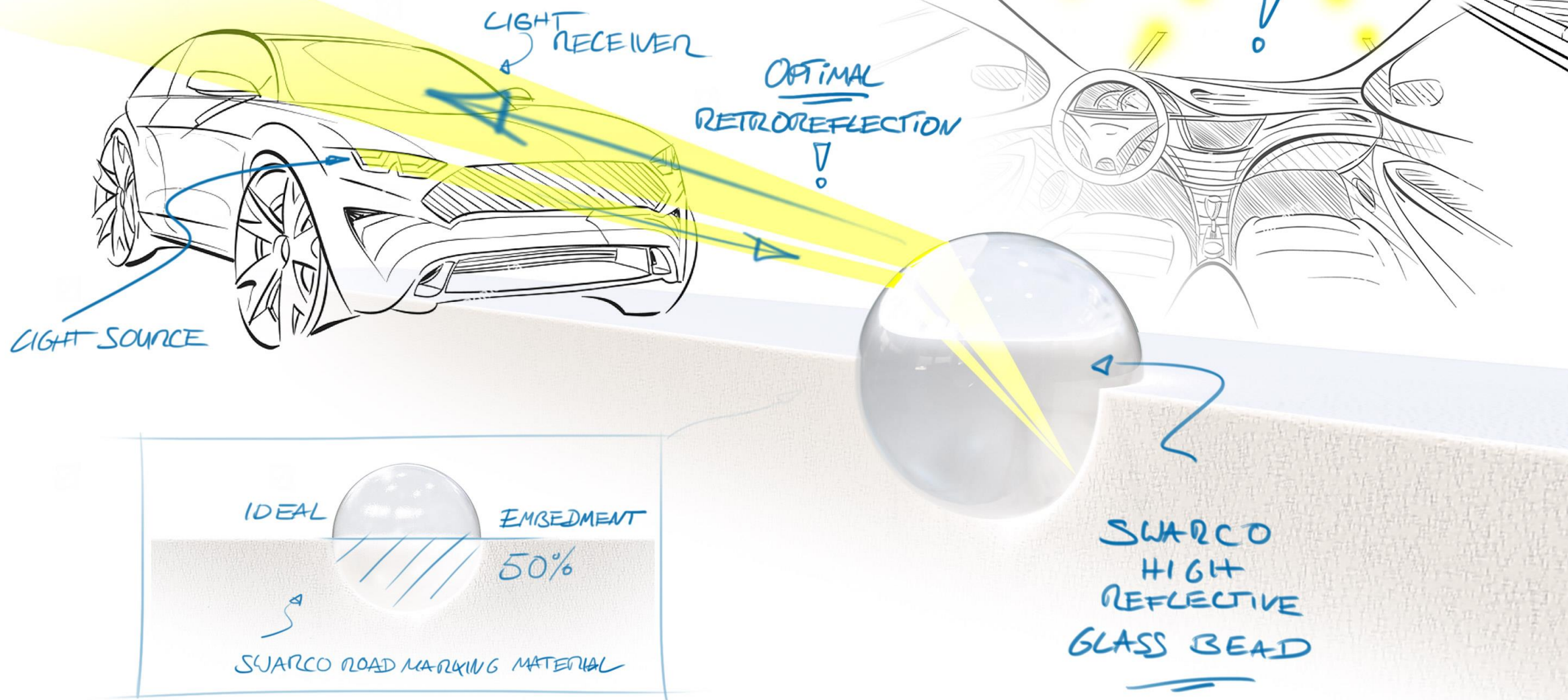
NEUFURTH, 14.02.2023

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REQUIREMENTS TO ACHIEVE BEST PERFORMANCE DURING ROAD MARKING APPLICATION

- Underground conditions
- Quality and Formulation of the Road Marking Material
- Adapted Road Marking System
 - Thickness of Road Marking Material
 - Harmonized Drop on Glass Beads (Sieve size, Coating, Anti Skid Material)
- Outside influences (weather conditions, rain, wind, etc...)
- Road Marking Applicator
- Road Marking equipment

IT'S ALWAYS ABOUT RETRO!
THE NEW ILLUSTRATION:



DROP-ON / PREMIX SWARCO REFLEX GLASS BEADS



SWARCOFLEX

- Glass beads up to 850 μm
- Conforming with norm or customer-specific specification
- Used in paints, thermoplastic and cold (spray) plastic
- Typical consumption: 400–500 g/m²
- Example of product designation:
SWARCOFLEX 200-800 T14
SWARCOFLEX 100-600 T15



SWARCOLUX

- Glass beads blends from approx. 100 to 1400 μm ; adjusted to customer requirements
- Used mainly in marking systems with higher requirements (wet night visibility, profiled and structured markings)
- Typical consumption: 400–500 g/m²
- Example of product designation:
SWARCOLUX 50 212-1400 T14 M20



MEGALUX-BEADS

- Glass beads of about 600 to 1400 μm ; specific to customer requirements
- Used in marking systems which have to perform under wet night conditions (mainly cold plastic, and cold spray plastic, thermoplastic)
- Typical consumption: 400–500 g/m²
- Example of product designation:
MEGALUX-BEADS 600-1400 T14 K20

DROP-ON / PREMIX SWARCO REFLEX GLASS BEADS

SWARCO SOLID**PLUS**

- High performance glass beads blends from approx. 212 to 1400 µm
- Special glass composition
- Increased service life and excellent retroreflective values
- Typical consumption: 400-500 g/m²
- Example of product designation:
SWARCO SOLIDPLUS** 100 300-850 T14**

PLUS9BEADS

- High-index glass beads of about 200 to 1000 µm
- Special glass composition
- Top-quality reflectors for airport markings
- Typical consumption: 400-500 g/m²
- Example of product designation:
****PLUS9**BEADS 300-850**



Why only
SWARCO SOLIDPLUS
on MMA?

EXCELLENT
VISIBILITY AT
NIGHT AND IN WET
AND FOGGY
CONDITIONS

SWARCO SOLIDPLUS

THE NEXT GENERATION OF GLASS BEADS

- Premium reflective glass beads
- 212 to 1400 μm
- Refractive Index < 1.7 , Class A (EN 1423)
- Special glass composition multiplies retroreflection
Retroreflection values of over $1000 \text{ mcd/m}^2 \cdot \text{lx}$
- Increased service life and
excellent retroreflective values
- Typical consumption: $400 - 600 \text{ g/m}^2$ (?)
- Example of product designation:
SWARCO SOLIDPLUS 30 212-850 T14
SWARCO SOLIDPLUS 100 300-850 T14



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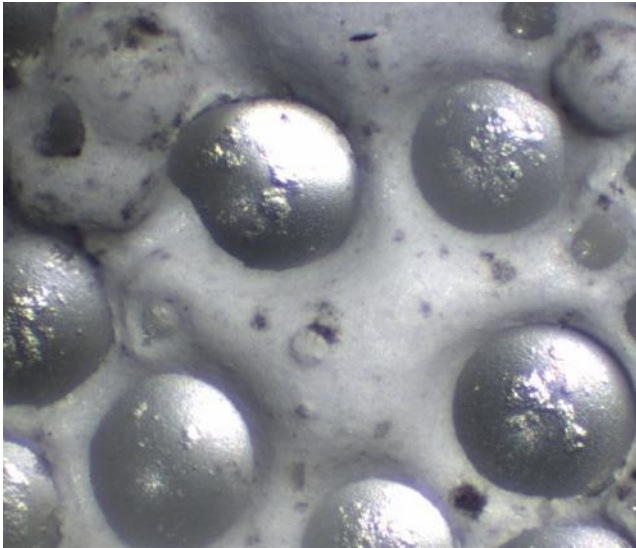
swarco 
Road Marking Systems

PLUS9BEADS

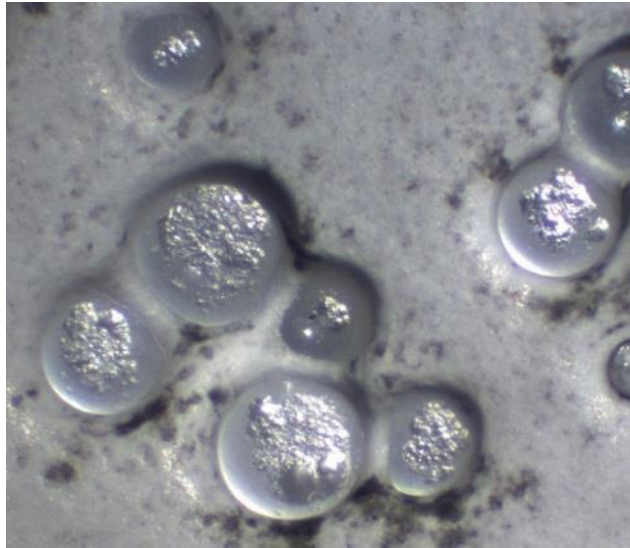
High-Index Glass Beads for Airports

- Reflective glass beads with Index 1.9+ for drop-on application
- Bead size: 300–800 μm
- Retroreflective values up to 1500 $\text{mcd/m}^2 \cdot \text{lx}$ depending on:
 - Quality of marking material
 - Road surface quality
 - Application
 - Consumption of reflective glass beads
 - Thickness of marking material

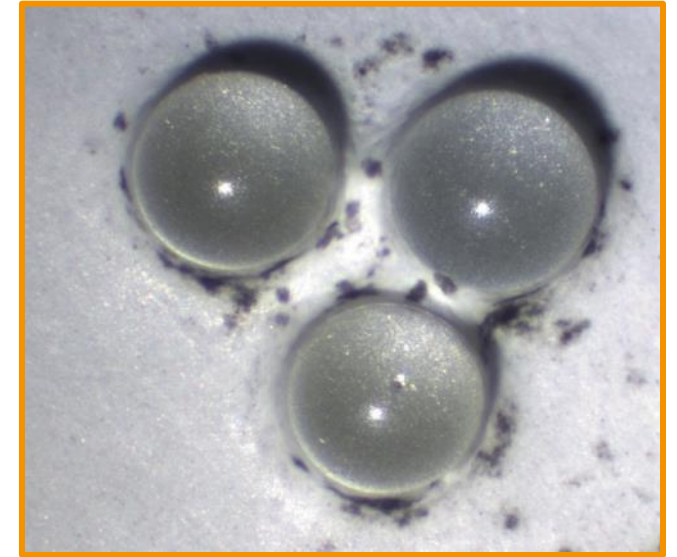
VERY DURABLE SWARCO SOLIDPLUS



Standard glass beads



High-Index glass beads



SWARCO SOLIDPLUS

SWARCO Road Marking Systems internal abrasion test method

IT TAKES KNOW-HOW DROP-ON BEADS THAT FIT



BEAD COATING OVERVIEW

	T14	T15	T18	H
Solvent based paints	✓ free of aromates			✓ with aromates
Waterborne paints (solvent free)		✓		
Cold plastic			✓	
2-C. Cold Plastic			✓	
Thermo plastic	✓			✓
Thermo spray plastic	✓			✓

Coating for all glass beads and anti-skid aggregates possible with T14, T18, T15, H, reactive.

ANTI-SKID AGGREGATES AND CLASSES

ANTI-SKID AGGREGATES

G	Cristobalite	M72
M	Minigrain	M0, M1, M2, ADS21
K	Corundum	0,5-1,7, 0,5-1, 500-850, 355-600, 250-425, 150-355
GG	Glass granulate	100-600, 200-800, 500-850, 600-1000

CLASSES: For required slip resistance when the marking is wet, measured with an SRT pendulum.

S0	S1	S2	S3	S4	S5
- - -	45	50	55	60	65