

VISION LIGHT

VISION LIGHT

SAFE
MODERN
INNOVATIVE
ECOFRIENDLY
MAINTENANCE FREE

Just imagine...

- ... a system that does not require electricity and yet provides illumination 24 hours a day and 7 days a week
- Such solution is now available and is produced and distributed by VisionLight

A NEW PATENTED SOLUTION

- **VISION LIGHT** is a new Polish company bringing you exciting new products using the most advanced development in photoluminescence.
- The photoluminescent products offered are based on a proprietary patented solution.

UNLIMITED POTENTIAL

- Photoluminescent Products are quite literally changing the world we live in. No matter what industry, Photoluminescent Products can be incorporated in buildings, factories, offices, cars, and domestic settings.
- At the heart of the **VISION LIGHT** products are a new range of revolutionary photoluminescent components/pigments mixed with different resins and/or glass developed here in Poland

FLEXIBILITY

- **VISION LIGHT** various components and/or products may be directly incorporated into many different types of:
 - GLASS
 - CERAMICS
 - RESINS AND EPOXY RESINS
 - COMPOUND PLASTICS
 - AND ARE SUITABLE FOR MOLDING

MUCH MORE COST EFFECTIVE

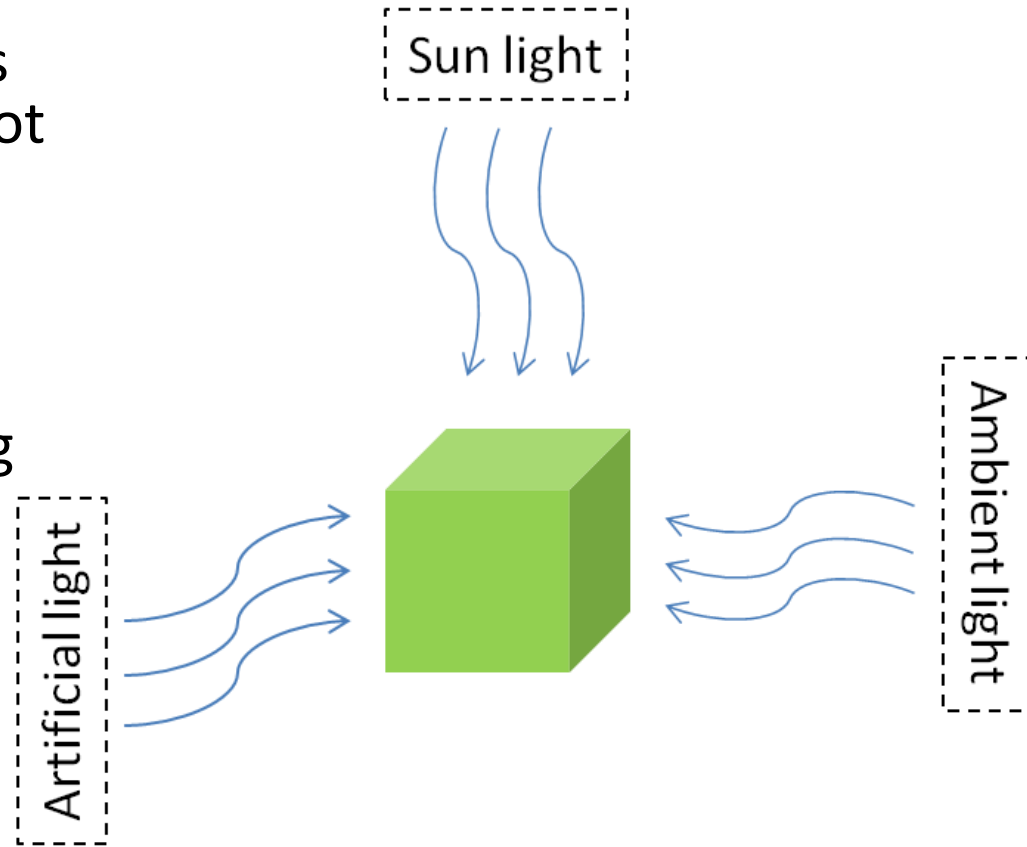
- **VISION LIGHT** products also have an advantage of being cost-effective and maintaining significantly higher ratio of visual output over time than any comparable product available on the market

DOES NOT REQUIRE ELECTRICITY

- **VISION LIGHT** products provide a non-powered point of visual reference when darkness descend

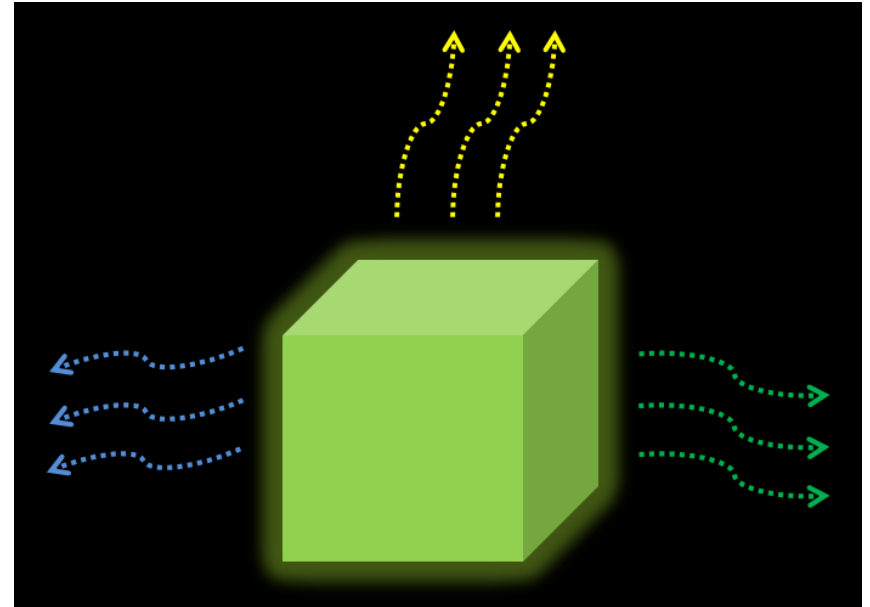
SAFE & ENVIRONMENT FRIENDLY

- The pigments/components used in our products are not hazardous and are environmentally safe
- When exposed to light for few minutes the pigment electrons are excited giving them higher energy coefficient than normal
- In the dark the excited pigments release this energy as a light that human eye sees as a glow



SPECTACULAR VISUAL GLOW PERSISTENCE

- This glow persists for over 16 hours in total darkness
- Total decay time over 20 days!



DECAY TIME: OVER 20 DAYS



PREZES
GLÓWNEGO URZĘDU MIAR
PRESIDENT OF CENTRAL OFFICE OF MEASURES

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Department of Radiation and Vibration
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ŚWIADECTWO WZORCOWANIA CERTIFICATE OF CALIBRATION

Data wydania: 06-07-2016 Nr świadectwa: M2-M23.4180.191.2016.2589.1 Strona: Page: 3 / 3

PRZEDMIOT WZORCOWANIA
CALIBRATED OBJECT
Próbka materiału fotoluminescencyjnego – Natura – kafel.
Sample of photoluminescent material - tile designated name Natura.

ZLECENIODAWCA
CUSTOMER
VisionLight Sp. z o. o.
Al. Niepodległości 54/37, 02 – 626 Warszawa

METODA WZORCOWANIA
METHOD OF CALIBRATION
Metoda wzorcowania podana w Instrukcji wzorcowania materiałów fotoluminescencyjnych (pomiar luminancji i czasu zaniku fosforescencji) numer systemowy IW20-PR23.
Calibration method given in Instruction of calibration of the photoluminescent material (measurement of luminance and decay time of phosphorescence) system number IW20-PR23.

WARUNKI ŚRODOWISKOWE
ENVIRONMENTAL CONDITIONS
Temperatura otoczenia: (22,3 + 22,7) °C
Ambient temperature:
Wilgotność względna: (51,0 + 53,1) %
Relative humidity:

ŚWIADECTWO WZORCOWANIA wykonanego przez Laboratorium Fotometrii i Radiometrii Zakładu Promieniowania i Drgań w Głównym Urzędzie Miar
CERTIFICATE of calibration performed by: Laboratory of Photometry and Radiometry, Department of Radiation and Vibration, Central Office of Measures

Data wydania: 06-07-2016 Nr świadectwa: M2-M23.4180.191.2016.2589.1 Strona: 2 / 3
Date of issue: Certificate No.: Page:

DATA WYKONANIA POMIARÓW
DATE OF CALIBRATION
30-05-2016
(dd-mm-yyyy)

SPÓJNOŚĆ POMIAROWA
TRACEABILITY
Wyniki wzorcowania materiału – materiał fotoluminescencyjny o symbolu Natura – kafel zostały odniesione do państwowego wzorca światłości światłości nr HA 1005B i HA 1006B o temperaturze ba wzorcowego firmy EG&G nr 179.
Results of calibration of photoluminescent material referred to national standard of luminous intensity through of luminous intensity No: HA 1005B and HA 1006B standard diffuser EG&G No: 179.

NIEPENNOŚĆ POMIARU
UNCERTAINTY OF MEASUREMENT
Niepewność pomiaru została wyznaczona zgodnie z załącznikiem EA-4/02 M: 2013. Podane wartości niepewności stanowią prawdopodobieństwo rozszerzenia ok. 95 % i współczynnik pomiaru. The reported expanded uncertainty is statistically multiplied by the coverage factor $k = 2$, which corresponds approximately 95 %.

WYNIKI WZORCOWANIA
RESULTS OF CALIBRATION

Time	Sample tile designated name Natura.			
	after 2 min.	after 5 min.	after 10 min.	after 30 min.
Photopic luminance [mcd/m ²]	3999,70	1799,70	1138,70	345,70

Period of light decay to 0,3 mcd/m² – 29500 min. Uncertainty of measurement

Warunki wzorcowania:
Pomiar luminancji świetlnej oraz czasu zaniku fosforescencji, po naświetlaniu próbek przez okres 5 min. z odległości 80 cm. Wartość natężenia oświetlenia na powierzchni oraz wyznaczenie czasu zaniku fosforescencji wykonano zgodnie z wymaganiami normy PN-EN ISO/IEC 17025:2005 "General requirements for the competence of testing and calibration laboratories".

Calibration conditions:
Photopic luminance and period of light decay was determined according to the requirements of the standard PN-EN ISO/IEC 17025:2005 "General requirements for the competence of testing and calibration laboratories".

ŚWIADECTWO WZORCOWANIA wykonanego przez Laboratorium Fotometrii i Radiometrii Zakładu Promieniowania i Drgań w Głównym Urzędzie Miar
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The Central Office of Measures (GUM) fulfils its responsibilities assigned by the Act of 11 of May 2001 – Law on Measures (consolidated text of 2004, Dziennik Ustaw 2004, No. 243, item 2441, with further amendments). GUM is the National Metrology Institute (NMI) for the Republic of Poland.

The Central Office of Measures is responsible for ensuring uniformity of measures and required accuracy of the results of measurements carried out in Poland as well as their traceability to the International System of Units (SI).

The Central Office of Measures as the NMI is the source from which the accredited calibration laboratories obtain their measurement traceability. The primary role of the national metrology institute is confirmed in the international document ILAC P10:01/2013, ILAC Policy on the Traceability of Measurement Results and the document DA-06 issued by the Polish Centre for Accreditation entitled "PCA policy on providing traceability for measurement". GUM standards, which are referred to in the results of calibration (information on the traceability posted on the front page of certificates) are linked to the standards of European and worldwide laboratories of National Metrology Institutes through participation in mutual comparisons of standards and / or calibration performed by these laboratories.

GUM calibration laboratories have implemented a quality assurance system based on standard PN-EN ISO/IEC 17025:2005 "General requirements for the competence of testing and calibration laboratories".

z up. Prezesa GUI
on behalf of President of
DYREKTOR
Zakładu Promieniowania i Drgań
Lukasz Litwa
mgr inż. Lukasz Litwa

PRODUCT'S LIFE SPAN OF 50+ YEARS

- **VISION LIGHT** product is recharged every time the pigment/component is exposed to light
- This ability to recharge itself makes it the most reliable system available for identification in the dark
- The life span of the products are estimated to reach 50+ years in and are applicable in all weather conditions

MAINTENANCE FREE

- **VISION LIGHT** products incorporate a photoluminescent components designed to be quickly and simply installed
- There is no structural work required and the products are virtually maintenance free

OVER 120 POTENTIAL APPLICATIONS

- **VISION LIGHT** unprecedented product range potential can be used to light up:
 - Roads: public, cycling, pedestrians
 - Terraces and gardens,
 - Pathways,
 - Stairs,
 - Tunnels,
 - Machinery and
 - Railways, Yachts, airplanes, etc, etc, etc...

VISION LIGHT

INFRASTRUCTURE

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HOUSING

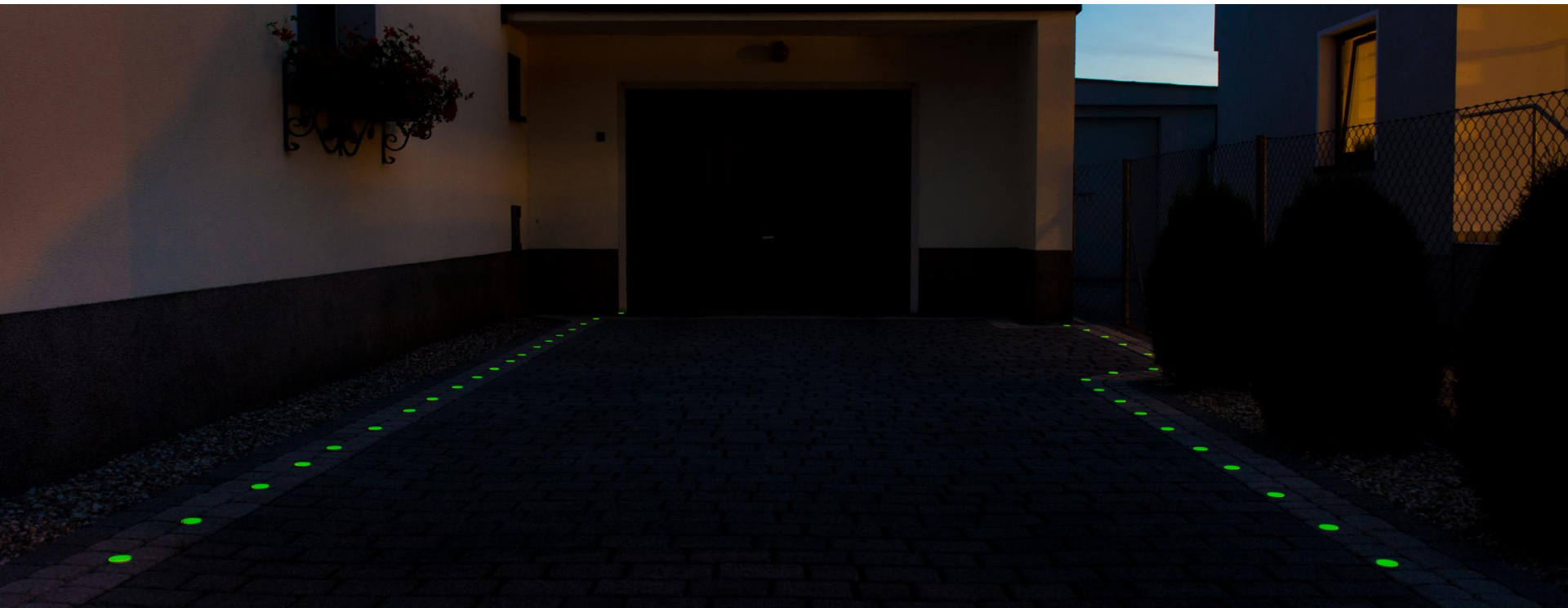
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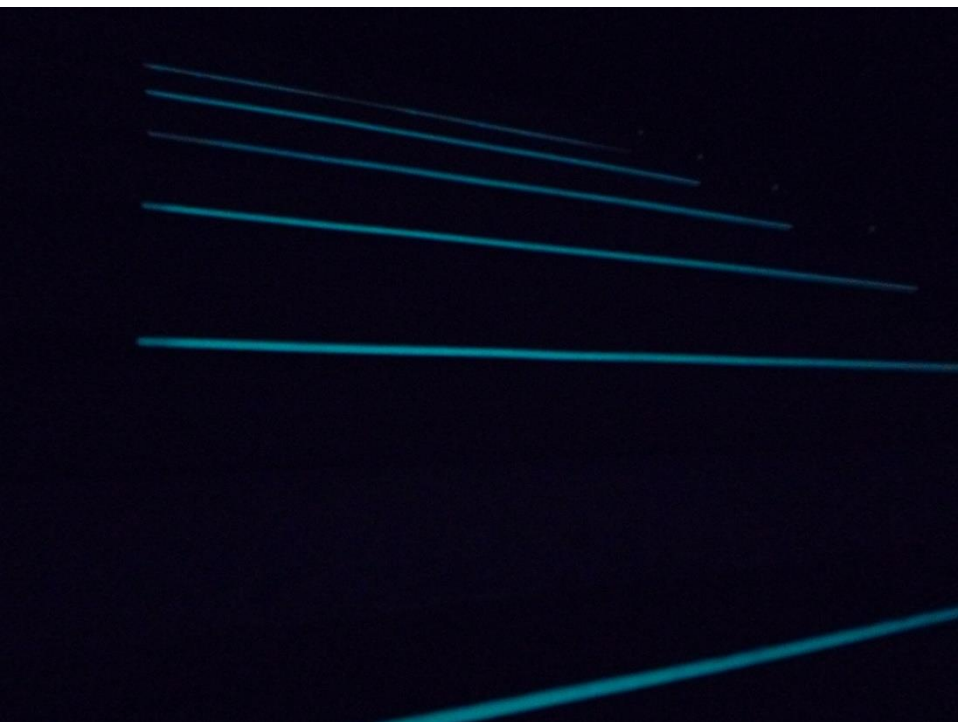
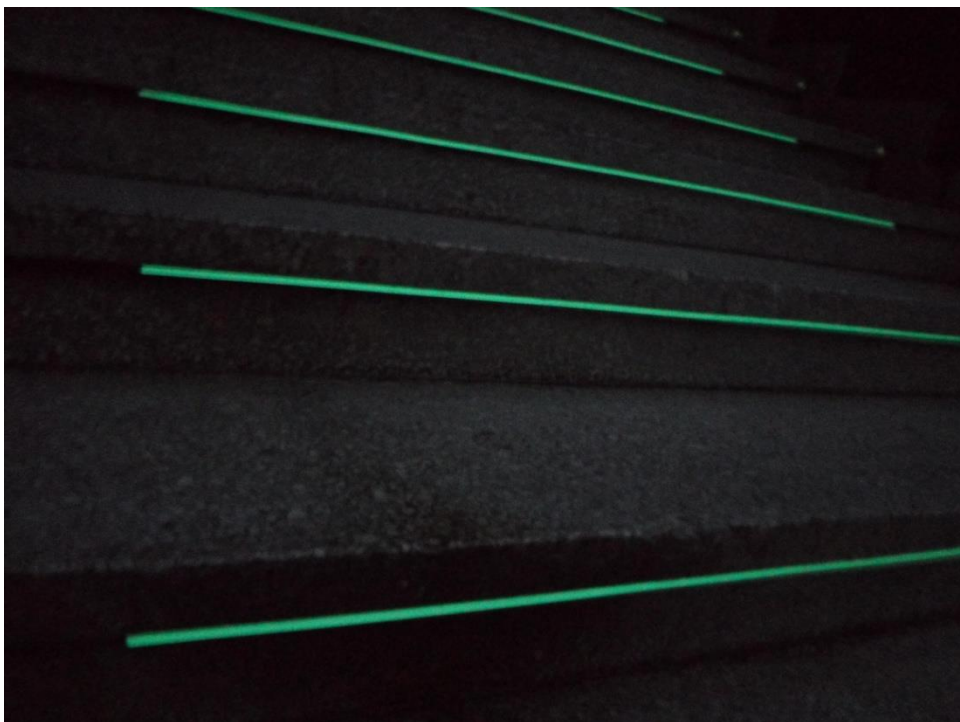
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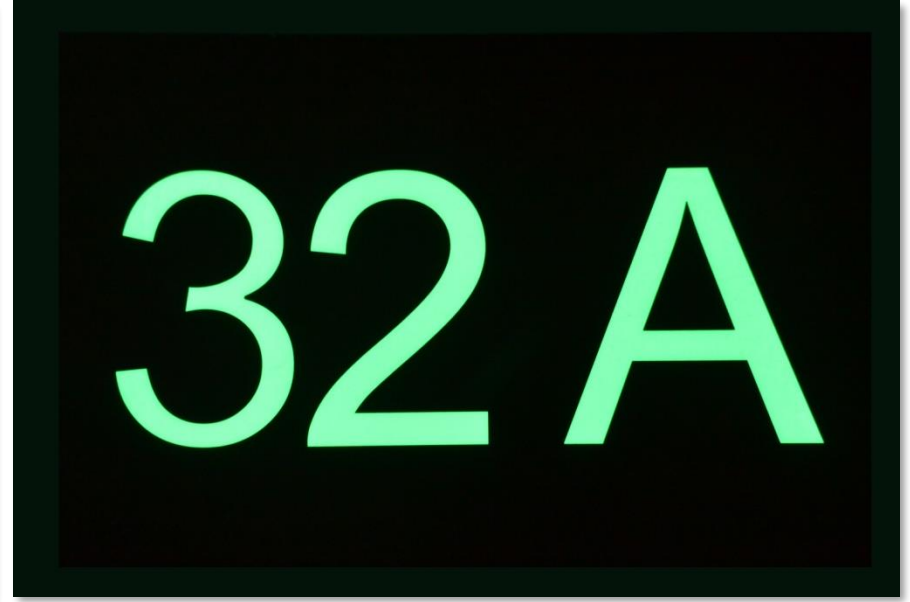
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SAFETY

VISION LIGHT



COMPETITIVE ADVANTAGES

- ✓ **Unprecedented range of applications**
- ✓ **50 years** - the life span of the product
- ✓ **No maintenance cost** for end users
- ✓ **Highest level of visual output** - after 5 seconds – 39000 mcd/m² –available on the market
 - ✓ **5 times exceeded ISO norm** (no 17398) - after 1h – 155 mcd/m²
- ✓ **20 days** – the afterglow decay time

PRODUCT OFFERING

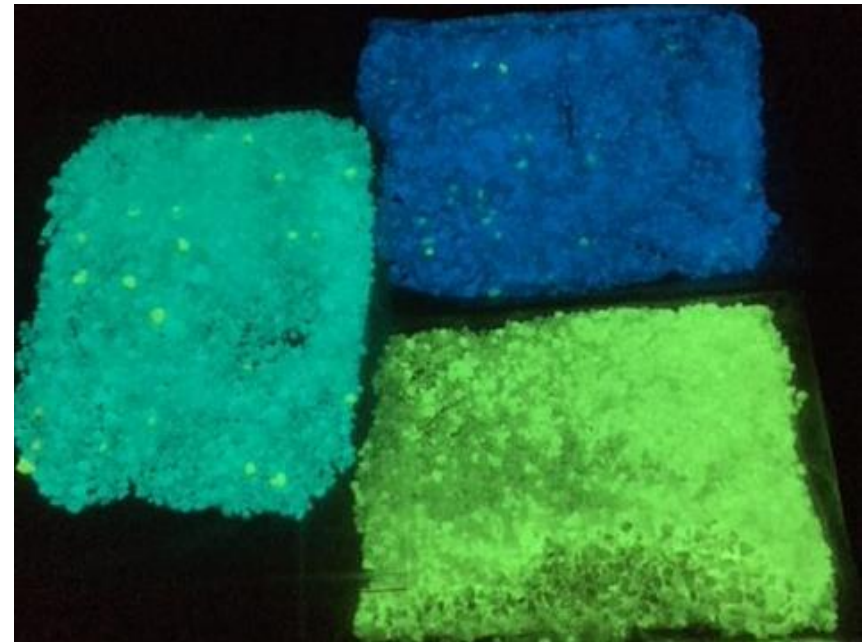
- We provide the benefit of no-energy cost photo luminescent technology in two broad categories:
 - Raw materials for manufacturers, and
 - Finished glow-in-the-dark products for end-users, resellers and distributors.

SAMPLE PRODUCT LINES

- **Photoluminescent grit**
- **Glowing resin tiles (different shapes)**
- **Letters, Numbers, Luminescent stickers**

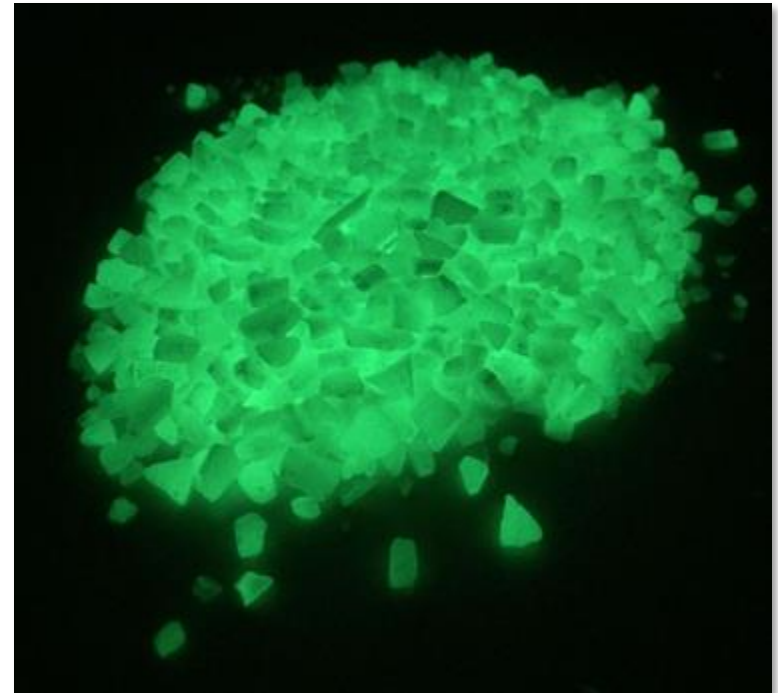
Photoluminescent grit

- Photoluminescent aggregate composed of a combination of several layers of different polyester resins and photoluminescent layers. The primary component is a photoluminescent material containing an alumina-based composite with additives.

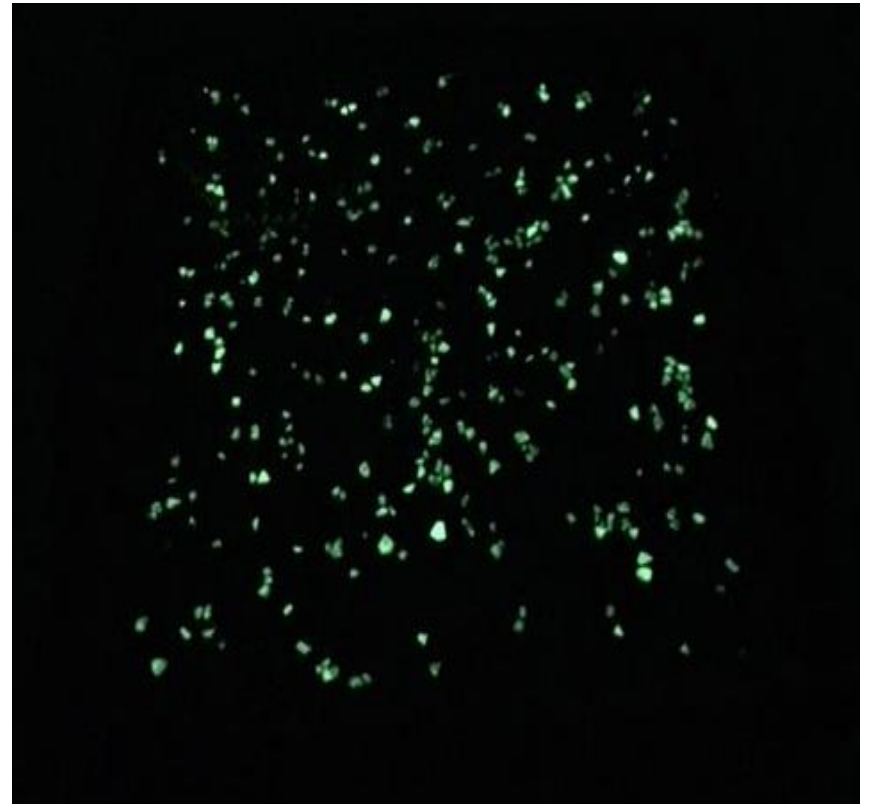


Photoluminescent grit

- A completely new, safe and ecological product designed for use on concrete surfaces such as paving stones. Thanks to the excellent visibility, it can be used as a decorative element, as well as the horizontal marking of the pedestrian and cycling trajectory, facilitating the movement in the night time and especially in total darkness.



Photoluminescent grit

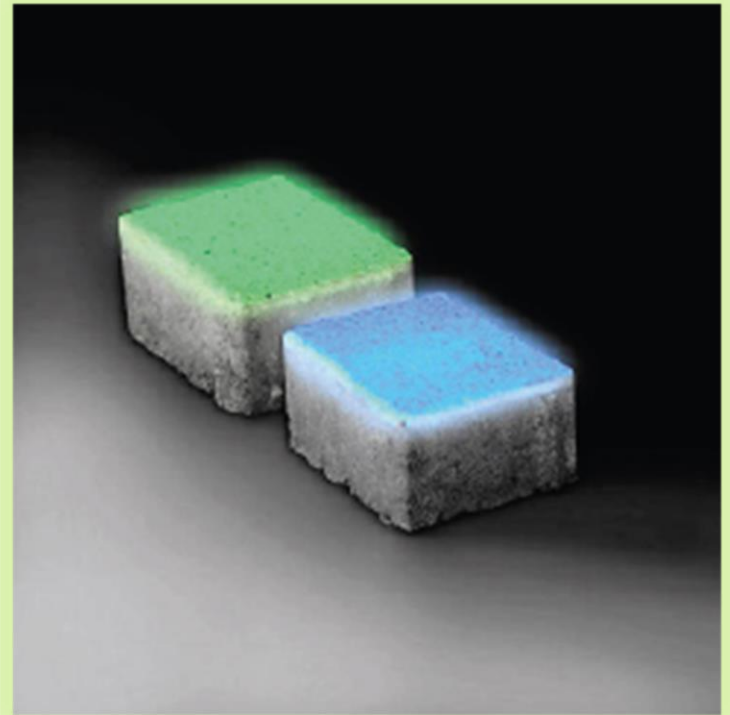


Glowing resin tiles



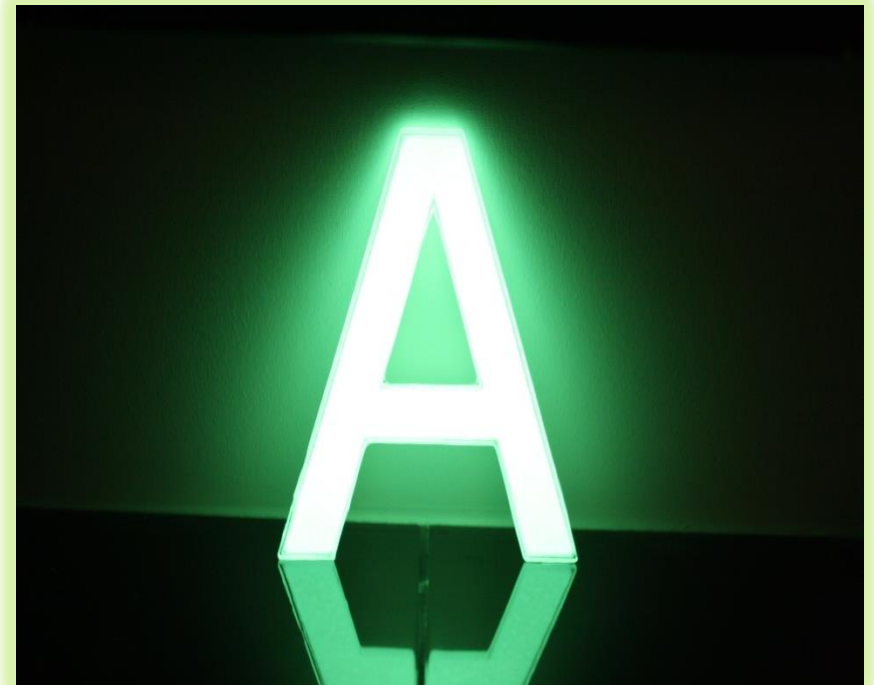
Glowing resin tiles

- Made of a special resin with the hardness of a glass suitable for molding (thermoplastic)
- Designed (together with different glue adhesives) to be attached to stone and concrete surfaces



Letters, Numbers, 3D luminescent stickers

- Letters
- Numbers
- 3D luminescent stickers
– illuminated self adhesive signs designed for interior and outdoor use



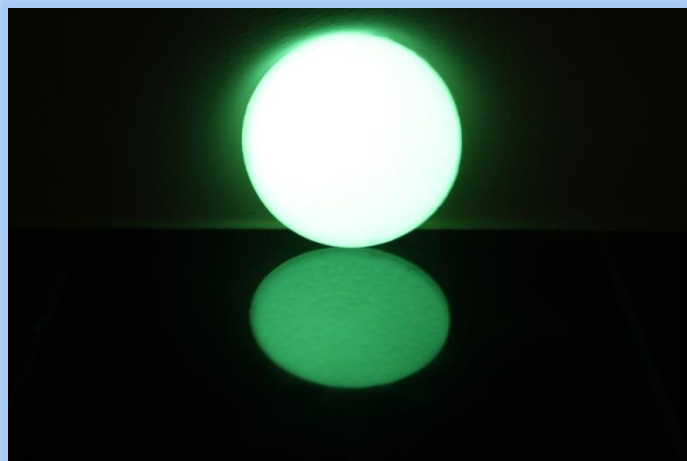
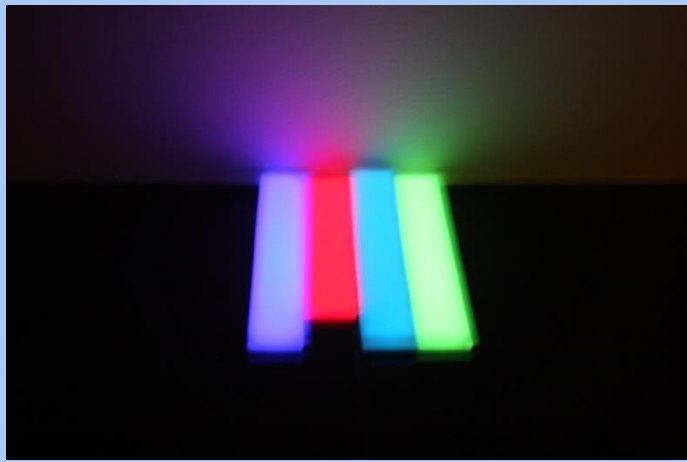
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Glowing resin tiles



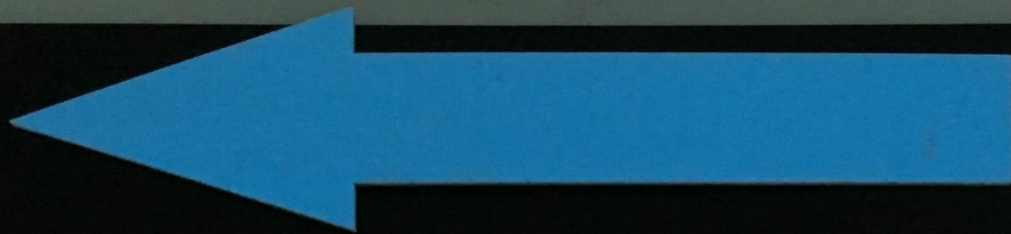
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Glowing resin tiles



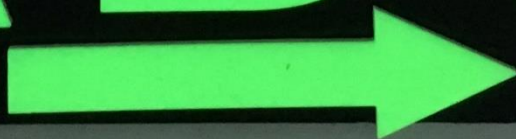
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UNIQUE PRODUCT FEATURES

- ✓ High power light of over 39K mcd/m² after 10sec
- ✓ after 16h maintains 8 mcd/m²
- ✓ Decay time of 20 days is 89 times better than standard (Referred to as the light decay "period" in DIN 67 510 standard.)
- ✓ Unlimited multiple charging with any type of light also with dim light
- ✓ Multiple colours – currently 4
- ✓ Comfort and durability
- ✓ Easy application to various products
- ✓ No need to power supply or a cable or link
- ✓ Total harmlessness
- ✓ No releasing any harmful substances to atmosphere including CO₂
- ✓ Expected applications include a list of over 120 areas of home through safety, rescue, roads to the military and maritime