



PV- PTG

Novelty in the PV-Industry

Polyurethane • PTFE (Teflon) • Glasflakes

MANUAL



Upgrade Solar modules = Enhance Efficiency

Product: gloss (degree of gloss 85%)
Special setting: Slate, Grass Green, Red

Benefits:

- Efficiency + > 30%
- Due to infrared protection temperature reduction by 8-12 ° C.
- Optimized utilization of light intensity and light color
- Durability 25 years by degradation < 2%
- Improved protection against moisture
- High resistance, suitable for extreme climatic conditions
- "Self-cleaning" surface with Teflon additives

Application:

the glass surface of the solar panel is coated with PV PTG and thus, the features of the existing photovoltaic systems is enhanced significantly

Process:

the glass surface must be thoroughly cleaned and all dirt particles removed. For new installations of PV's the silicon content must be treated specially, i.e. by special pretreatment device that is used according to the principle of a flame pyrolysis. By subject treatment an optimum adhesion of PV- PTG on the glass surface is achieved.

After thorough cleaning, the coating PV PTG is applied on the glass surface (incl. the aluminum frame).

The next step is that the polyurethane lacquer is mixed with PTFE (Teflon) additives in a mixing ratio 20:1.

The coating can now be utilized, either machine processing or manually with a velour roller.



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To achieve ideal performances of the PV-system, glass flakes are now applied. This ensures optimum results of the PV-system.

Characteristics:

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|----------------------------------|--|
| Oblique Light performance: | Acc. to IEC 61215 |
| Light resistance: | ISO 2813 |
| UV Light resistance: | IEC 61730-2, IEC 61215 |
| Temperature resistance: | - 40 to + 150 degrees Celsius |
| Temperature change test: | acc. to DIN EN ISO 4628-1 |
| Resistance against Humidity: | highly resistant, DIN EN ISO 6270-1 |
| Resistance vs.perm. Humidity: | acc. to ISO6270, ISO 4628-1,2,4,5,6 and ISO 1516 |
| Dust, Sand resistance: | Highly resistant, self healing, IEC 60068-2-68 |
| Water resistance: | acc. to ISO 2812, ISO 1518, ISO 2409 and ISO 4628-1,2,4,5,6 |
| Light fastness: | UV Light and weather proof IEC 61215, IEC 61730-2, Authenticity check Light fastness according to EN ISO 105-B06 |
| Melting Temperature: | 290 degree Celsius |
| Fire resistance rating: | B2 |
| Resistance against org solvents: | acc. to ISO 2812, ISO 1518, ISO 2409 and ISO 4628-1,2,4,5,6 |
| Salt Spray Test: | acc. to ISO 7253, ISO 4628-1,2,4,5,6 |

Resistancy:

Furthermore to the aforementioned Characteristics, the PV Coating is highly resistance against:

- Alcohol, Fuel, gasoline, Diesel, Oil, and chemical Cleaner
- UV and Infrared Light. Tested over 11500 h, no change in characteristics
- Acetone, Salt acid (20%), Sulfur acid (20%), Nitric acid (20%), Sodium Hydroxide
- Resistance against Salt spray

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|--------------|---------------|----------------|--------|
| Item: | PV-PTG System | Art.-No.651156 | |
| | PV PU | 556061 | 5,0 Kg |
| | PV-PT | 285021 | 200 g |
| | PV-GE | 580120 | 20 g |