

## URS® COLD MIRROR REFLECTOR TECHNOLOGY



The new generation of cold mirror reflectors, URS® reflectors, provides considerable benefits in terms of increased efficiency as well as increased UV energy reaching the substrate.



### **HIGHER OUTPUT, LOWER ENERGY CONSUMPTION**

Trials have been carried out with the new reflectors both in the laboratory and in practical field tests in the offset, flexo, screen printing and letterpress sectors. The UV measurements taken during these show that comparable curing results are possible with reduced energy consumption.

The basis of this technology is a water or air-cooled aluminium profile, which is coated with approx. 60 wafer-thin layers of metal oxide in a high-vacuum vapour deposition process. The aim is to convey the maximum possible UV output to the surface of the substrate. URS® reflector technology uses advanced reflector geometry and additional reflection surfaces to match exactly the requirements of each production process.

### **10.000 OPERATING HOURS WARRANTY**

Please take note of our terms of warranty:  
[www.ist-uv.com/en/reflectors](http://www.ist-uv.com/en/reflectors)

A further considerable advantage when printing on heat-sensitive materials is the reduction in infra red energy (heat) on the substrate with the use of the lower power lamps.

### **REDUCTION IN INFRA RED ENERGY (HEAT)**

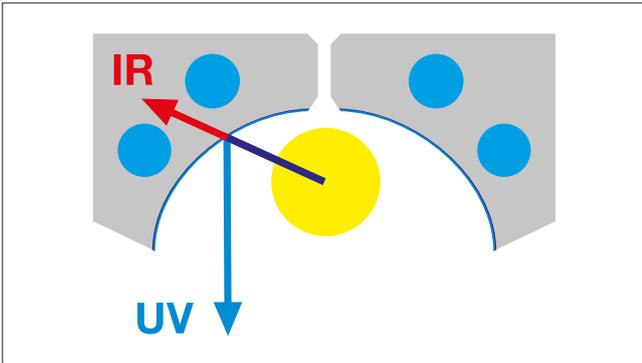
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### **STABLE PROCESSES**

The enhanced reflector surface has a very long service life. The age-related drop in UV output sets in several thousand hours later than in conventional reflectors. The extremely stable optical properties, which are maintained throughout the reflector's life, guarantee high process reliability. The surface is also easy to clean.

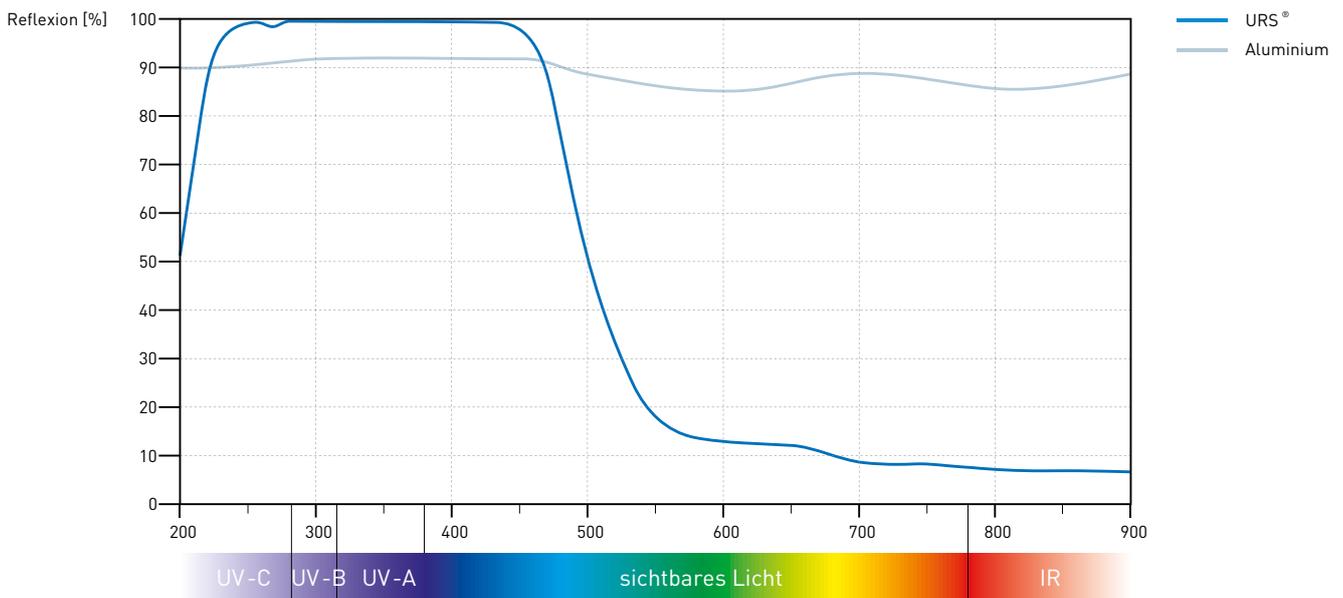
## URS® REFLECTOR TECHNOLOGY

The new URS® cold mirror reflector technology combines the advantages of the well-established aluminium and CMK (cold mirror) reflectors: only the UV light is reflected whilst the IR energy (heat) passes through the dichroic coatings and the cold mirror glass into a water-cooled absorber profile where the heat is efficiently removed. In addition, additional reflector profiles increase the UV energy reaching the substrate



## URS® COLD MIRROR REFLECTOR TECHNOLOGY OFFERS MANY BENEFITS:

- Optimum adjustment of the reflector geometry to the production process
- Specific coatings for the best possible adaptation to customer-specific reflectors
- Targeted, controlled heat dissipation through a special absorber layer
- Significant increase in service life compared to aluminium reflectors
- Low heat generation on the substrate
- Easy handling, robust design
- Easy cleaning of the reflector
- Extended irradiation field
- More UV light on the substrate
- Increased productivity



## CARE OF THE REFLECTOR

Cleaning the reflector regularly with "Reflexion+" cleaning milk guarantees a high UV output over several thousand operating hours.



## WE HAVE THE CURE

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