

CASE STUDY: The high reflectance properties of the HYPERDESMO® System
Reducing the effects of UHI on buildings.



An **Urban Heat Island** (UHI) is a built-up area in which observed temperatures are significantly higher than in surrounding rural areas, primarily as a result of heat retaining materials used in construction.

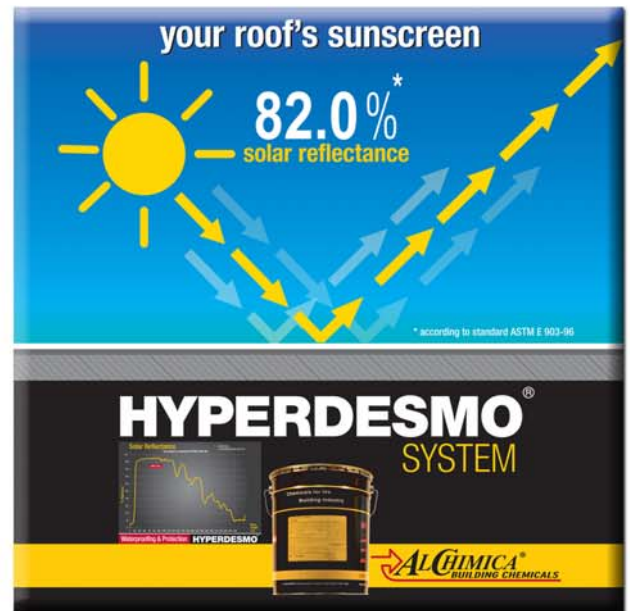
The HYPERDESMO® System (HYPERDESMO® + HYPERDESMO®-ADY-E), a CE certified waterproofing and protection system for exposed use, is also a certified **cool material**. It reflects up to **82%** of solar radiation:

SR (Solar Reflectance):	0.82
SRI (SR Index):	102
ε (infrared emittance):	0.87

These values hold very well with time since colours do no fade and the coating is fully washable.

Benefits:

- Reduces temperatures inside buildings during the summer months.
- Lowers the energy requirements for keeping buildings cool.
- Higher protection and, therefore, greater longevity of structural elements.
- Contributes towards reducing the UHI effect.

your roof's sunscreen

82.0%*
solar reflectance

* according to standard ASTM E 903-96

HYPERDESMO®
SYSTEM

ALCHIMICA®
BUILDING CHEMICALS

ABOUT THE HYPERDESMO® SYSTEM: The polyurethane liquid membrane for EXPOSED use. For waterproofing & protection of cement, insulation foams, asphalt & EPDM membranes, bathrooms, balconies, roofs, light roofing made of metal or fibrous cement, stadium stands, car parks, bridge platforms, irrigation channels.