

CASE STUDY

ARKEMA



Minimising the footprint of roofing

The need for innovation

Maximising a building's lifecycle will reduce maintenance time and costs, resulting in greater efficiency and reducing renovation material waste.

The response through innovation

Arkema has produced an acrylic-modified polyvinylidene fluoride (PVDF) resin in a convenient emulsion form that will extend the expected lifecycle of a roof to 30 years or more.

The outstanding durability of the water-based Kynar Aquatec® coatings not only maximises a building's lifecycle, another significant advantage of Kynar Aquatec® based coatings is the high solar reflectivity providing high advantages in cool roofing. A cool roof can reduce roof surface temperature by as much as 37°C, reducing the heat transferred into a building (and the demand on the Heating, Ventilating, and Air Conditioning system) and prolonging a roof's lifecycle.

These VOC-compliant liquid coatings formulated with Kynar Aquatec® PVDF emulsions provide easier application in the field or in the factory, and will dry at ambient temperature.

Offering excellent adhesion to a variety of substrates, including metal, PVC, polyolefin, wood, and concrete, these innovative liquid coatings can also be used as a finish coat over acrylic basecoats.

Main product attributes are: extreme weatherability, outstanding water repellency, excellent dirt shedding (white coatings remain white), superb mildew resistance, and excellent stain and chemical resistance.

Arkema received the Pierre Potier* 2010 Award for its Kynar Aquatec® emulsions.

Further information on this innovation may be found under:

<http://www.kynaraquatec.com>
<http://e-novmag.arkema.com/sites/webzine/fr/architecture/home.page>

* The Pierre Potier Award, created in 2006 on the initiative of the French Ministry of the Economy, Finance and Industry, rewards every year chemical manufacturers who engage in innovation at the service of sustainable development.

