

Alsan *FLEX*

Liquid Waterproofing Membrane for Metal, Single Ply,
Tear Off and Recovery Roofing Applications



The Building
Envelope
Company

Alsan *FLEX* is the ideal liquid waterproofing membrane designed to extend the service life of metal roofs while rejuvenating single ply membranes that are at the end of their life cycle. Alsan *FLEX* is also ideal for recovery applications on almost any substrate.

With its bright white appearance, Alsan *FLEX* meets CRRC initial solar reflectance and thermal emittance standards and helps to reduce heating and cooling costs.



Metal Roof Before



Metal Roof After

Cool Roofs such as Alsan *FLEX* reduce the Heat Island Effect



What is an Urban Heat Island?
As urban areas develop, changes occur in their landscape. As surfaces in rural areas stay near air temperature, in urban areas, surfaces can reach temperatures 50-90° F higher than the ambient air temperature. Once these urban surfaces experience increased temperature, they release this heat into the atmosphere creating Urban Heat Islands.

Cool Roofs:

White roofs reflect sunlight and stay cooler. This helps decrease utility costs and reduce the development of Urban Heat Islands. Alsan *FLEX* exceeds standards put forth by the CEC, CEC, ENERGY STAR, LEED and the Department of Defense for solar reflectivity.



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Metal Panel Before



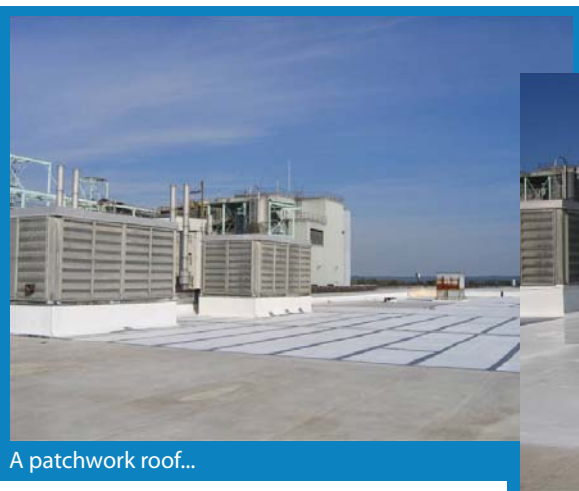
Metal Panel After

Soprema's Alsan *FLEX* exceeds standards put forth by the CEC, ENERGY STAR, LEED and the Department of Defense for minimum acceptable solar reflectance values:

| Program | Requirement | Reflectance | Alsan <i>FLEX</i> | Emittance | Alsan <i>FLEX</i> |
|----------------|-------------|-------------|-------------------|-----------|-------------------|
| Title 24 (CEC) | Mandatory | 0.70 | 0.89 | 0.75 | 0.91 |
| ENERGY STAR | Voluntary | 0.65 | 0.89 | N/A | 0.91 |
| LEED | Voluntary | 0.65 | 0.89 | 0.90 | 0.91 |
| SPiRit (DOD) | Voluntary | 0.65 | 0.89 | N/A | 0.91 |

Solar Reflectance Index (SRI)

SRI indicates the roof's ability to reject solar heat and is essentially the combined value of reflectivity and emittance. It is defined such that a standard black roof has an SRI value of zero (reflectance 0.05, emittance 0.90) and a standard white roof has an SRI value of 100 (reflectance 0.80, emittance 0.90)



A patchwork roof...



...to a monolithic membrane