

# Cool Coatings Unleash Economic and Environmental Benefits: Inside SANEDI and FSPS-Partners' Pioneering Collaboration

In response to key global megatrends that have also impacted South Africa — such as climate change, urbanisation, demographic shifts, the Fourth Industrial Revolution (4IR) and growing inequalities — The SANEDI Cool Surfaces and Insulation Programme has attempted to action strategies centring its attention on three fundamental themes in line with national policy: Climate Change and Decarbonisation, Municipal Service Delivery, and Data & Technological Convergence, it maximises its impact under the direction of the Department of Mineral Resources and Energy.

FSPS-Partners, an innovative South African company, stands at the forefront of advanced Cool Coatings technology. Their high-performing Solar Reflectance Index (SRI) metrics — 110 for SWISS-R1 Ultra Reflective Cool Coating and 108 for TPL1 advanced thermal Cool Coating — have set new local standards for Cool Coatings.

Project lead and technical expert in the passive-energy thermal control space, Denise Lundall quickly identified the significance of FSPS-Partners product's performance results and the impact they could have on the projects for Cool Coatings. In this endeavour, she is collaborating with FSPS-Partners on transformative initiatives, such as the project at Far North School in Cosmo City. Here, FSPS-Partners has served as patrons for their advanced Cool Coating application, benefiting the local community and contributing to long-term Monitoring & Verification (M&V) data collection for further research and development.

As 2023 draws to a close, SANEDI and FSPS-Partners are expanding their collaborative efforts. They are aiming to enhance awareness among commercial entities, property management companies and engineers, building consultants through strategic outreach. These groups stand to benefit significantly as Cool Coatings yield multiple advantages, including specifically the reduction of HVAC operating expenses via significant energy conservation, enhanced thermal comfort within interior spaces, an increase in the functional lifespan of treated surfaces and contribution to the mitigation of both the urban heat island effect and global warming.

The expansion of this particular market sector carries with it an impressive amount of potential, particularly when considering its implications for the local economy and workforce. The steady and noticeable rise in this industry's prominence paves the way for a wealth of opportunities for job creation at a local level.