

Saudi Arabia HVAC – Radiant Heat Gain

Location: Saudi Arabia

Coating: Mascoat WeatherBloc

Thickness: 40 mils (1 mm)

Reason for application: Radiant heat gain & personnel protection



An office building in Saudi Arabia reported that during the summer months, the ambient air could reach extreme temperatures that exceed 130°F (55°C) and that the building would never get cool enough for the employees to get comfortable. Another issue was that much of the galvanized HVAC ductwork is exposed to the sun and can reach temperatures of 156°F (70°C), making it impossible for the air-conditioning system to work correctly.

The HVAC was painted a lighter color to try to reduce the effects of radiant heat but this was not enough to keep the building cool. All

of the old paint was removed and the surface was scuffed and then cleaned thoroughly.

After this was complete, 40 mils (1 mm) of Mascoat WeatherBloc was applied to the ductwork. The employees instantly saw the conditions improve dramatically inside the office and reported to be cool and comfortable inside.

It was also reported that WeatherBloc not only cooled the metal to make the HVAC system more effective with keeping the office cool, but it also sealed most of the small holes and gaps making the system more efficient.