Requirements:
The new Nammuldi below water table mine (NBWT) Ammonium Nitrate Storage Facility required the concrete walls and floor areas to be suitably protected from the corrosive effects of Ammonium Nitrate. Following the Rio Tinto specification, Antiskid were contracted to complete the installation of Nuplex Surecoat Wall and Floor Epoxy protection systems. All works were to be completed during the construction phase, requiring extensive consultation with other onsite construction contractors and full compliance with the strict onsite OHS, environmental and contractual requirements.

Solution:
The 3200m² overall floor area was protected with 5mm Surecoat 500 epoxy flooring system and finished with Calcined Bauxite, tough slip resistant coloured epoxy seal coats to withstand the rigors of the heavy duty articulated loaders, and road trains in operation. The 1900m² of internal walls were coated with Nuplex 200HS epoxy wall coating, incorporating the perimeter walls, individual bay walls and soffits. All surfaces were to be fully prepared to ensure all concrete panel casting imperfections were repaired to provide smooth finish, sealed surface.

Products used:
- Nuplex Surecote 500 Epoxy Slurry Screed
- Nuplex Surecote 500 321 sealer
- Nuplex Surecote 200 HS (white)

Project details:
Date: September 2015 – January 2016
Location: Nammuldi Mine, Pilbara
Construction: Kerman Contracting
Contractor: Antiskid Industries