POLY-TECH
INDUSTRIAL SERVICES

THE ASSET PROTECTION & RESTORATION SPECIALISTS

PROJECT SUMMARY

Project
Poly-Tech
Electro Static Conductive Flooring

Substrate
Concrete

Surface Preparation
Diamond Grinding

Coating System
Sikafloor 220W
Sikafloor 262AS

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poly-tech
COMPLETE ASSET PROTECTION

ZF Lemforder Conductive Floor

Anti Static flooring specifications are increasing in Australia as designers have a greater understanding of the harmful risks electrostatic charge can create within specific environments across multiple business sectors. Electrostatic charge is commonly created by the friction of two materials, so that an imbalance of electrons (electrostatic field) is created on a material surface. In industrial environments wherever chemicals are used, there can be a potential risk of explosive vapour/ air mixtures forming - an electrostatic discharge can provide sufficient energy to ignite such a mixture. In addition, the presence or attraction / adhesion of dust may also present several other static electricity problems. Typical industrial areas which carry such risk include:

- Chemical processing areas in factories
- Semi-conductor and electronic assembly areas
- Pharmaceutical/biotechnology clean rooms, hospitals and similar medical environments
- Food processing areas (particularly those processing powdered foodstuffs)
- Computer & server rooms

ADVANTAGES

- Low viscosity for improved handling during application.
- Exhibits excellent resistance to strong acids, alkalis and most industrial chemicals/solvents.
- 100% Solids—low odour application and cure (0-VOC).
- Bonds well to cool, damp substrates.
- Conductive & non sparking, 25,000 - 1,000,000 ohms resistance (Depending on system)
- Easy to clean

Poly-Tech understands antistatic systems. The above project at ZF Lemforder consisted of AGV driveways being coated with Sika's self-levelling screed Sikafloor 262AS. This system was selected to protect their AGV's that robotically manufacturer high spec car components. Any sparking could critically damage these expensive assets so working closely with the structural engineer and electrical contractors, earthing points were carefully installed in accordance with the manufactures guidelines. The correct earthing of any anti-static flooring system is critical - it may not be possible to lay the flooring system directly on top of a ground concrete layer and guarantee proper electrical earthing. Therefore copper earthing strips can be used to guarantee electrical continuity between the flooring and the electrical grounding point. Dissipative or conductive flooring is also subject to the surface resistivity required from the initial design brief.

So if you are concerned about how static could cause risk to your business assets, talk to the Poly-Tech technical team for our conductive flooring know how.

SA | TAS | VIC | NSW | NT