

MIROTHANE PU – Polyurethane Coatings

Visual Appearance

Advantages

Full range of gloss levels available from matt to full gloss

High build facilitates achievement of a full (close pore) finish

Highest full gloss level - it is possible to achieve gloss levels of greater than 95%, especially if applied over a polyester (PE) undercoat.

Potential Issues

Technically difficult to achieve a matt (10%) gloss that possesses good early scuff/mar resistance and uniform gloss.

Application Issues

Advantages

Two component coating with high build however typically with much shorter pot life than AC's.

Low odour in application & service

Formaldehyde free

Excellent flexibility and therefore superior scratch and impact resistance.

Once the film has cured, no residual emission of toxic compounds.

Potential Issues

Contains isocyanate: requirement for full-face air assisted mask during & immediately after coating application.

Atomised isocyanates pose a potential risk to coating applicators: may cause lung sensitisation with severe asthma like reaction after repeated exposure. However this is not a problem if PU is sprayed in a good quality spray booth and an external air source full face mask is worn.

Coating waste will result if all catalysed (mixed Part A + B) coating is not consumed within the coating's pot life.

The longer the elapsed time period between initial mixing of Part A + B the worse the physical properties of the final coating.

In Service Performance

Advantages

If well formulated, excellent chemical and water resistance. Typically superior to NC, PC and AC coatings.

Potential Issues