

**Meeting to discuss application of Cardiff black.
MSSL 20/8/02**

Present

Pete, Iris, Chris, Tony, John, Eric

General comments

Coating is approx 2mm thick.

Rubber mould is proposed for large areas.

Cure time is 2 hours in oven, at 80 degrees.

A clear area of about 1 mm is acceptable at the joints between mating parts.

Coatings to be applied at Cardiff, Pete to confirm if large ovens are available.

Cardiff to consider qualifying a hot cure and a 24hour cure.

Ultra sonic clean in water based detergent to be part of qual programme, RAL can do this.

Areas to be coated.

Input baffle tube.

All internal surfaces.

CFIL 1.

All surfaces facing the incoming light to be hand coated with CB, (an alternative may be Chemglaze Z306 if CB cannot be hand painted, but we only really want one type of coating to qualify etc.)

Detector side of the CFIL 1 holder and clamp ring.

CM 4 baffle,

Peter to contact Ian Pain.

Photometer cold stop

1 facing the detectors

All surfaces around the stop normal to the detector.

2 facing away from the detectors.

No coating.

Spectrometer box input filters, SFIL 3 S and SFIL 3L.

No coating.

Spectrometer cover baffle.

SMEC side of baffle to be coated. (this is 0.5mm sheet metal, so may prove a problem with vibration and possible mismatch of CTE.)

SCAL.

SCAL internal baffle plate not require (item 6 on 5264 314)

All internal surfaces of SCAL box to be coated, including the lid and base.

SCAL baffle

Area close to SCAL aperture to be covered. The flat area either side of the aperture. On the SCAL side. And all of the SMEC side.

SM 12 a and SM 12b. Mirrors.

These were not discussed at the meeting but will require the machined area around the mirror surface to be coated.

Area between M3 and M5.

A strip between M3 and M5 to be coated, such that light falling between the two is trapped.

Eric Sawyer
20/8/02