

# TECHNICAL OPINION

Ref: TSD466-4

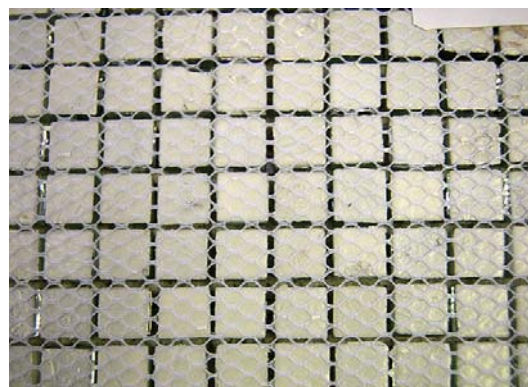
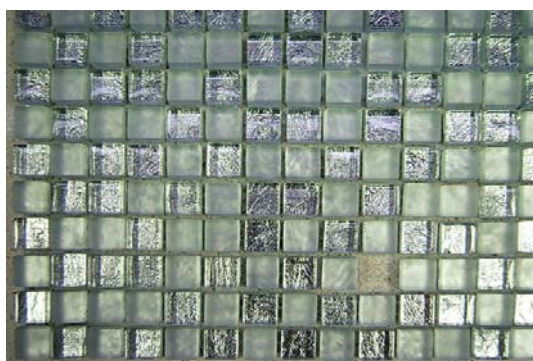
Date of issue: October  
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## EXAMINATION OF DÉCOR 8 MOSAIC TILES

A sheet of mosaic tiles was received from Décor 8 for assessment of suitable adhesives when the tiles are to be used on interior bathroom walls.

### Sample description

The tiles were described as 'Mosaic foil glass' and were 15x15x7mm pieces on 298x298mm mesh sheets. The tiles themselves were pieces of transparent or translucent glass with a foil backing which appeared to be sealed with either white paint or some form of adhesive film. The tiles were bonded with a clear adhesive onto a fabric mesh with 4x5mm hexagonal apertures. The estimated mesh coverage was 30-40% and mesh adhesive coverage close to 100% over the tile back



### Basis of opinion

The tiles were visually examined, and a section of three tiles was placed into water to determine properties of the mesh adhesive. The mesh adhesive did dissolve and the tiles fell free. It is not known whether the glass is an alkali resistant type.

### Recommendation

***Ardex recommends that these tiles be bonded with non-water based adhesives (c.f. excluding C1-C2 cement based or D dispersion class adhesives) and also non cement grouts to prevent alkali corrosion of the foil part of the tiles where adhesive, or alkali salt rich water (leaching through cement based grouts) may come in contact. Sealants must be neutral cure to prevent corrosion.***

***The recommended adhesive, grout and silicone therefore are:***

***ARDEX WA Epoxy as the adhesive and grout***

***ARDEX CA20-P as adhesive for small areas***

***ARDEX ST Silicone as the sealant.***

***These tiles are not suitable for immersed applications due to mesh adhesive solubility.***

### Certificate Conditions

This certificate and recommendations apply only to the tiles described herein

This certificate has a period of validity of 24 months from date of issue

Where a specific site or installation is nominated, this recommendation only applies for that particular site

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