

Environment Integrity

Creating effective barriers to contamination

8 Solutions has become the leading data centre healthcare provider in the UK and throughout the EMEA region. We understand that your data centre is the backbone of your organisation. Our team of highly trained, qualified and fully security cleared technicians provide a range of support designed to help ensure your data centre can deliver the problem-free service you need.

This support includes a range of authoritative advice, expert testing and skilled remediation and maintenance services to help ensure the Environmental Integrity of your data centre.

Room Integrity

For any environment such as a data centre, with a gas based fire suppression system it is both best practice and a mandatory annual requirement that the capability to hold pressure is tested and maintained to prevent premature escape of fire retardant gas.



8 Solutions can both test the environment and provide remediation services. Typically these services include the replacement and upgrade of door seals, ensuring floor panel integrity and the closing and sealing of cable and similar ingress points.

The subfloor is a very common location of pressure leakage particularly caused by cable or utility ingress and missing or poorly fitted seals and deficient fire walls. 8 Solutions technicians will identify leakage points within the subfloor and can carry out repairs, install new or replacement firewalls and seal all ingress points. All materials used are fully BSI compliant.

The sealing of the environment including the subfloor will obviously ensure the efficacy of the fire suppression system. It will also improve the performance of the air flow and cooling system, reducing energy costs and increasing the longevity of the AC units.

Subfloor Seal

The subfloor is not just the foundation of the data centre, it forms an integral part of the air circulation system. To work

efficiently it needs to be effectively sealed to prevent the ingress of moisture and contamination and also to prevent the creation of airborne contamination caused by the degradation through oxidisation of the concrete surface. Regular inspection is essential and resealing should be a priority when required. 8 Solutions can provide complete sub floor seals, including the removal of all contaminants prior to the sealing, and the inspection and repair of existing installations where there is damage caused by subfloor works or water ingress.

8 Solutions have considerable expertise and experience in the use of both water based and epoxy based sealants and in delivering fully fire and water retardant seals for sub floors of all sizes and specifications.

The effective and professional sealing of a data centre's subfloor slab will protect against water ingress and prevent the creation of contamination through degrading concrete. This will increase the longevity of the subfloor and the entire facility.

