



KEIM Mineral Paints – Technical Digest

KEIM Mineral Paints and Fire Performance Classification

1. Keim Mineral Paints

Keim Mineral Paints comprise a liquid potassium silicate paint binder with natural earth oxide pigments and natural mineral fillers, such as feldspar. They are environmentally friendly, sustainable, contain no solvents, are low VOC, odour free and harmless.

Keim paints are inherently non-combustible and do not give off any toxic gases. Both the manufacturing process and the composition of the material create an incombustible product.

2. Construction Products Regulations (CPR)

In April 2011 the Construction Products Regulations (CPR) came into force which aims to unify fire performance standards across Europe. Rather than each country have their individual testing methods and standards, replacing all with a single set of European wide standards aims to remove technical barriers to product specification and simplify understanding.

Under the new European classification (Euroclass or Eurnorm) standard EN13501-1, a construction product is classified in the following manner -

The main part of the classification is its letter - A1, A2, B, C, D, E and F (A1 is the highest level of performance, with F the lowest performance level)

There is a smoke classification of s1, s2 or s3 (s1 is the highest level of performance and s3 is the lowest performance level)

A2 – s1, d0

There is a classification of flaming droplets of d0, d1 or d2 (d0 is the highest level of performance and d2 is the lowest performance level)

3. Equivalence reaction between Euroclass and existing UK Building Regulation

EuroClass (in accordance with EN13501.1 + A1:2009)	(UK) Building Regulations (in accordance with Approved Document B)
A1	Non-combustible
A2	Material of limited combustibility
B	Class 0*
C	Class 1**
D	Class 3
E & F	

*Class 0 products are: a) Composed throughout of materials of limited combustibility or b) Products with Class 1 performance for surface spread of flame when tested in accordance with BS 476-7 which, when tested in accordance with BS 476-6, also have a fire propagation index (I) of not more than 12 and a sub-index (i1) of not more than 6





**Class 1 or Class 3 is achieved when a material or product meets specific criteria for lateral spread of flame in accordance with BS 476-7.

4. Keim Mineral Paints Products Classification

Keim Product	EuroClass (in accordance with EN13501.1 + A1:2009)
Keim Soldalit	A2-s1,d0
Keim Granital	A2-s1,d0
Keim Concretal W	A2-s1,d0
Keim Ecosil-ME	A2-s1,d0
Keim Optil	A2-s1,d0
Keim Soldalit-ME	A2-s1,d0

For further information regarding Keim Mineral Paints please contact our sales office sales@keimpaints.co.uk or 01952 231250.

