

Guidance Note

Top Coat Specifications

Purpose

The purpose of this document is to provide a general guidance for specification control of topcoats for use over Nullifire Intumescent Coatings

Recommendations

- If the project calls for CE marked products, the topcoat selection and application may be limited- please contact a member of the technical team for further information.
- If the project does not call for CE marked products, Nullifire produce and maintain lists of approved topcoats for use with generic families of intumescent, including thickness and over-coating limitations.
- It is recommended that patch tests are conducted to ensure compatibility before top-coating.
- The thickness of the Nullifire intumescent will be determined by the individual product loading tables.
- It is expected that the environmental category is supplied to Nullifire, and Nullifire will not accept responsibility for incorrect information.
- Specifications above are advised based on high duration durability, based on ISO 12944, with regular preventative maintenance inspection carried out as described.

Exposure Scenario		Water Based Intumescent	Solvent Based Intumescent	Hybrid Intumescent	Expected Lifetime Guidance
ISO 12944	ETAG				
C1	Z2	1 x 50 microns (optional)	1 x 50 microns (optional)	1 x 50 microns (optional)	lifetime of building
C2 Internal	Z1	1 x 50 microns (optional)	1 x 50 microns (optional)	1 x 50 microns (optional)	lifetime of building
C2 External	Y	1 x 50 microns	1 x 50 microns	1 x 50 microns*	up to 20 years
C3 Internal	Y	2 x 75 microns	2 x 75 microns	2 x 75 microns	up to 20 years ¹
C3 External	X	2 x 75 microns	2 x 75 microns	2 x 75 microns	up to 20 years ²
C4 Internal	X	not suitable	2 x 75 microns	2 x 75 microns	up to 20 years ¹
C4 External	X	not suitable	2 x 75 microns**	2 x 75 microns	up to 20 years ²
C5	N/A	not suitable	not suitable	2 x 75 microns	up to 15 years ³
Additional Information					
Open Construction Stage (up to 6 months maximum)		with a topseal <small>(SC804 permitted without topseal for 3 months maximum)</small>	no topseal	no topseal	

Technical Service

Nullifire has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call the technical hub on +44 (0) 20 3917 1776

** Lifetime expectation reduced to 15 years

¹- 3 years after installation, documented preventative maintenance inspection required, and minimum every three years following. If not carried out, reduced to 10 years.

²- 3 years after installation, documented preventative maintenance inspection required and minimum every 1 year following. If not carried out reduced to 10 years.

³- documented preventative maintenance inspection required every year. If not carried out, reduced to 5 years.

Notes

- Expected lifetime guidance given based on two component acrylic urethane topcoat being used, typically Nullifire TS134 or Carbothane 156 SG. For alternatives, please contact a member of Nullifire technical team.

* Recommended but not essential for low duration expectations- reduced lifetime.