

Guidance Note

Specification Control



Purpose

The purpose of this document is to provide a general guidance for specification control of systems for use with Nullifire Intumescent Coatings.

Exposure Scenario		Intumescent Specification			Non Intumescent Specification		Expected Lifetime Guidance
		Water Based	Solvent Based	Hybrid	Functional	Aesthetic	
ISO 12944	EAD						
C1	Z2	75 microns Carboguard 633 SC800 Series XX DFT 50 microns Carbothane 156SG (optional)	75 microns Carboguard 633 SC600 Series XX DFT 50 microns Carbothane 156SG (optional)	75 microns Carbomastic 18FC SC900 Series XX DFT 50 microns Carbothane 156SG (optional)	75 microns Carboguard 633 or 100 microns PM020	75 microns Carboguard 633 50 microns Carbothane 156SG	Lifetime of building
C2 Internal	Z1	75 microns Carboguard 633 SC800 Series XX DFT 50 microns Carbothane 156SG	75 microns Carboguard 633 SC600 Series XX DFT 50 microns Carbothane 156SG	75 microns Carbomastic 18FC SC900 Series XX DFT 50 microns Carbothane 156SG (optional)	125 microns Carboguard 633	100 microns Carboguard 633 50 microns Carbothane 156SG	Lifetime of building
C2 External	Y	Not Recommended	75 microns Carboguard 633 SC600 Series XX DFT 50 microns Carbothane 156SG	75 microns Carbomastic 18FC SC900 Series XX DFT 50 microns Carbothane 156SG	125 microns Carboguard 633	100 microns Carboguard 633 50 microns Carbothane 156SG	Up to 20 years
C3 Internal	Y	75 microns Carboguard 633 SC800 Series XX DFT 2 x 75 microns Carbothane 156SG*	75 microns Carboguard 633 SC600 Series XX DFT 2 x 75 microns Carbothane 156SG*	75 microns Carbomastic 18FC SC900 Series XX DFT 2 x 75 microns Carbothane 156SG	225 microns Carboguard 633	200 microns Carboguard 633 50 microns Carbothane 156SG	Up to 20 years ¹
C3 External	X	Not Recommended	75 microns Carboguard 633 SC600 Series XX DFT 2 x 75 microns Carbothane 156SG*	75 microns Carbomastic 18FC SC900 Series XX DFT 2 x 75 microns Carbothane 156SG	250 microns Carboguard 633	225 microns Carboguard 633 50 microns Carbothane 156SG	Up to 20 years ²
C4 Internal	X	Not Suitable	75 microns Carboguard 633 SC600 Series XX DFT 2 x 75 microns Carbothane 156SG*	75 microns Carbomastic 18FC SC900 Series XX DFT 2 x 75 microns Carbothane 156SG*	250 microns Carboguard 633	225 microns Carboguard 633 50 microns Carbothane 156SG	Up to 20 years ¹
C4 External	X	Not Suitable	75 microns Carboguard 633 SC600 Series XX DFT 2 x 75 microns Carbothane 156SG*	75 microns Carbomastic 18FC SC900 Series XX DFT 2 x 75 microns Carbothane 156SG*	275 microns Carboguard 633	250 microns Carboguard 633 50 microns Carbothane 156SG	Up to 20 years ²
C5	N/A	Not Suitable	Not Suitable	60 microns Carbozinc 858 150 microns Carbomastic 18FC SC900 Series XX DFT 2 x 75 microns Carbothane 156SG*	60 microns Carbozinc 858 265 microns Carboguard 633	60 microns Carbozinc 858 240 microns Carboguard 633 50 microns Carbothane 156SG	Up to 15 years ³

Additional Information

Open Construction Stage (up to 6 months max.)	With a topcoat (SC804 permitted without topcoat for 3 months max.)	With a topcoat	No topcoat
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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.

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.
- Topcoats in the Intumescent Specification may be substituted for any from the approved topcoat list maintaining the DFT and number of coats. Only where * is marked is this limited to any acrylic urethane topcoat from the same list.
- Primer recommendation from “Non-Intumescent Specification” can be used under intumescent for enhanced corrosion protection.
- Primers in the “Intumescent Specification” may be substituted for any from the approved primer list maintaining the DFT above.
- Topcoats in the Intumescent Specification may be substituted for any from the approved topcoat list maintaining the DFT and number of coats. Only where * is marked is this limited to any acrylic urethane topcoat from the same list.

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

‡ Lifetime expectation reduced to 15 years.

¹- 3 years after installation, documented preventative maintenance inspection required, and minimum every 3 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.

Technical Service

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

Guarantee / Warranty

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