



MICON INTUSAYF

Micon offer a range of intumescent coatings for the fire protection of structural steel and other substrates. INTUSAYF provides fire resistance to structural steel when applied in accordance with pre-determined dry film thickness. INTUSAYF can also be applied to combustible materials such as electrical cables, P.V.C pipes, and wood to enhance the fire resistance by the limiting spread of flame.

MICON INTUSAYF

- Tested by the C.S.I.R to comply with Anglo American Specifications, S.A.B.S and other industry requirements.
- A choice of coatings to suit on site conditions
- Compatible with Micon protective and decorative Topcoats
- Easily applied with a brush, roller or airless spray

DESCRIPTION

- Micon offer a range of intumescent coatings to suit site conditions
- Micon Water Based Intusayf is water based intumescent paint for the application in occupied buildings, food processing plants, spaces and the mining industry.
- Micon Solvent Based Intusayf is a quick drying solvent based coating for above ground applications. Care must be taken, however, during application due to its 2 degree Celsius flash point.
- Micon Intusayf Varnish is a clear intumescent varnish system designed to upgrade existing timber panelling

MICON PROTECTIVE COATINGS

- Micon Vinylkote Topcoat is to protect the INTUSAYF against damage by impact or abrasion and against the elements.
- Micon Amourkote is a tough, acid resistant and durable solvent two part polyurethane protective topcoat

APPLICATION

Micon INTUSAYF can be applied either by brush, roller, or airless spray to most surfaces free from dust, oil, grease, and other components. Dry Film Thicknesses to achieve a 1-hour fire rating on steel sections have been calculated by the C.S.I.R. It is essential that a Micon base coat is applied to the steel section prior to the application of Micon INTUSAYF and finished with a protective Micon TOPCOAT. For the protection of P.V.C armoured cables a base coat must be applied first followed by 2 coats of INTUSAYF to achieve a Dry Film Thickness of 250microns. It is recommended that a protective Micon TOPCOAT be then applied.

ENVIRONMENT

Micon INTUSAYF products are non toxic and environmentally acceptable.

ACTION IN FIRE

At temperatures in excess of 200°C, Micon INTUSAYF first softens and then expands up to 20 times its applied thickness to form an insulated foamed carbonised char that reduces the rate of temperature increase in steel and hence prolongs the its load bearing capabilities. Toxic gas emissions are negligible, water resistance good and char stability excellent. There are no signs of cracking or loss of adhesion when applied to a P.V.C armoured cable

FIRE TEST REPORTS

Fire Properties	Test Method
- combustion gases	NES 713(S.A.B.S method T1)
- insulating properties	S.A.B.S 0177 Part II
- flash point of solvent	ASTM D93 Closed Cup Result
- adhesion and flexibility	Anglo American PLC Specification 164/23
- water resistance	Anglo American PLC Specification 164/23
- stability of char	Anglo American PLC Specification 164/23

***tested by the C.S.I.R report # 550 59554/20071991 and BF201/003 56005664051995**

