COATINGS

socomore

Intumescent coating

SOCOGLAZE INTUMESCENT 0618

SOCOGLAZE INTUMESCENT 0618 is meant for the aerospace industry and other markets like railway to address their fire protection needs. This coating can be applied to composite and metal parts to protect them from delamination and deformation in the event of a fire.

Features and benefits

- **High temperature resistance and thermal insulation**
- **High durability**
- **Humidity and chemical resistance to aggressive environments**

Technical caracteristics

Base	Epoxy 2K
Color	Black or white (other colors on demand)
Support	Composites, metals
Thickness (dry)	Up to 600 µm in one layer
Drying time	240 min at 70 °C + 60 min at 100 °C
Solid content	87 %
Application	HVLP Air Spray



Testing SOCOGLAZE INTUMESCENT 0618

Fire resistance

Composite carbon epoxy: **700 x 700 x 5 (mm)**
Coating thickness: **600 µm**
Thermal constraint applied (oil burner): **116 kW/m2 during 15 minutes**



Sample before testing



Testing



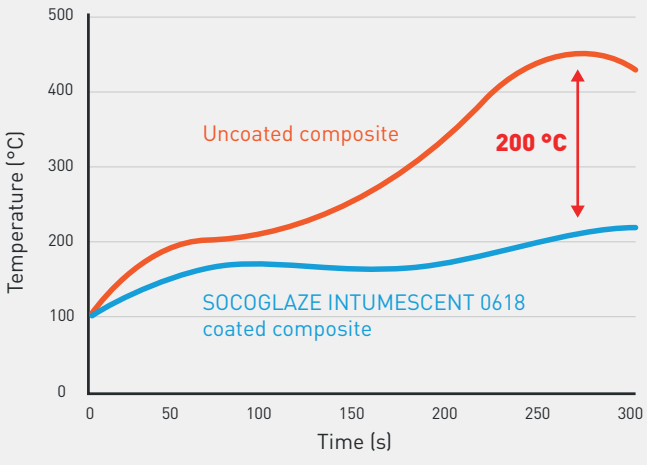
Sample after testing

Results

- The char stays **cohesive** during the test
- **No degradation or delamination** of the coated composite (compared to uncoated composite that is KO)
- Thermal insulation of approx **200°C after 5 min** on the rear side of the composite

Temperature evolution on the back face of the composite in fire

Uncoated composite versus SOCOGLAZE INTUMESCENT 0618 coated composite





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