Monofiber
KOMPOSIT INDUSTRIENS BEDSTE BRANDS

BÜFA®-FIRESTOP GC S 250-SV ORANGE

Fire Protection Gelcoat, spraying quality - Prod. No. 714-2505

PRODUCT DESCRIPTION

BÜFA®-Firestop GC S 250-SV ORANGE BF-20173-F is a flame retarding gelcoat in a spraying consistence based on a special, elasticised mixture of unsaturated isophthalic acid polyester resins dissolved in styrene and MMA. This gelcoat is pre-accelerated and contains less styrene than most in this category. Its fire protection properties are achieved by the addition of ATH and special additives ensure low smoke density in case of fire. In layer thicknesses normally used for gelcoats (400 - 600 µm), it does not essentially influence the behaviour of the laminating resin under fire. Because of the fillers used, there may be a slight, earlier loss of gloss on the surface.

BÜFA®-Firestop GC S 250-SV ORANGE BF-20173-F is highly elastic, is distinguished by good wetting properties on difficult release agents. BÜFA®-Firestop GC S 250-SV ORANGE BF-20173-F is halogen-free and does not contain any additives on a phosphorus or nitrogen base that could negatively influence weather resistance.

APPLICATIONS

BÜFA®-Firestop GC S 250-SV ORANGE BF-20173-F can be used for moulded parts used indoors and outdoors that are subjected to normal loads, e.g. furniture, machine parts, frames for domed roof-lights, etc. BÜFA gelcoat formulations on an ISO or ISO/NPG base should be used for parts that are subjected to water loads or extreme weathering. In these cases, strict attention must be paid to the layer thickness of the gelcoat as well as increased flame resistance of the laminating resin.

SPECIFICATIONS / TECHNICAL DATA

Property	Test method	Value	Unit
Density at 20 °C	DIN 53 217/2	1,20 – 1,40	g/ml
Viscosity at 20°C Brookfield RV/DV-II spl 5 rpm 5	ISO 2555	15 000 – 20 000	mPas
Styrene content		20 - 23	%
Flash point	DIN 53 213	+ 27	°C

CURING

REACTIVITY		
BÜFA method in accordance with DIN 16 945 6.2.2.1 (100 g Gelcoat + 1.5 g Butanox M-50)	20 - 30 °C 20 °C – Tmax Tmax	25 - 31 min 55 - 65 min 85 - 115 °C
Gel time at 20 °C in a 100 g cup with 1.5 g Butanox M-50		25 - 31 min

ATTENTION!
The information given above refers exclusively to the use of the catalyst named and the quantity specified. The use of different products or differing quantities may yield different results. Density depends on pigmentation.

DIRECTIONS FOR USE
Our release agent system BF 500 /BF 700 has been tested and successfully used with this gelcoat. Before using other release agents, they should be tested for suitability under practical conditions. If circumstances permit, we recommend post-curing the moulded part for 6 hours at approx. + 80 °C to achieve optimal gelcoat properties. For more information on working and curing, see the notes in our Technical Information leaflet, "Working with OLDOPAL Gelcoats".

NOTE
The thickness of the laminate and its entire construction, including any top coats, varnishes, applications, sandwich components, etc. also have a decisive influence on fire behaviour. Always remember that individual component tests are mandatory for most applications.

STORAGE/HANDLING
This product must be stored cool in closed containers, protected from sunlight. Shelf-life is at least 3 months in unopened, original containers stored up to a temperature of 20 °C. Gel and curing times may change with increasing duration of storage.