



Sealmaster Graphite Strip

Part of the Dixon
International Group Ltd
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Introduction

Historic doors need special edge protection if they are to survive for more than a few minutes in a fire. Conventional 30 min fire doors are normally 45mm thick but most non-fire doors are thinner and consequently more liable to warp, leading to rapid failure in a fire. Sealmaster has developed a very thin (1mm) self-adhesive intumescent strip which is fitted to the frame reveal, avoiding the need for invasive routing of the leaf edge or frame.

The Product

The GRS seal is a 1mm thick graphite based intumescent strip with a full width self-adhesive tape applied to one side. It has been specifically developed for use as a door edge seal when upgrading the fire performance of doors of historical interest (listed). Being only 1mm thick it can be fitted between door edge and frame without hindering the operation of the door in most cases. The face fixing means that invasive grooves do not need to be cut into the door edge or frame which is deprecated on historic doors. An extra benefit is that the seal runs over most types of hinges if they are fitted to the door/frame edge giving extra protection in these vulnerable areas. The seal can be trimmed to fit the frame reveal. The seal is naturally black and does not require any further protection but it can be overpainted to match the surroundings if desired.

Application

It is essential that the surface onto which the material is to be fixed is clean and free from dust. Self-adhesive tapes will not stick to dirty surfaces or rough surfaces. Our technical service department will advise on cleaning treatments. The adhesion is best at temperatures between 15C and 25C but the product should not be applied if the temperature is below 10C or above 35C. If the material is overpainted to blend in with the surroundings its appearance should be virtually undetectable and this has been shown to have no deleterious influence on the fire capabilities.

Test Evidence

Tests have been carried out at Trada to BS476 Part 22 and test no RF95082 refers where the product achieved in excess of 32 mins. Recent independent research has shown that these seals are able to seal gaps much larger than those conventionally considered to be the maximum and our technical department should be consulted for details.

