



www.MyBigNano.co.za
Product Brochure



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About MyBigNano South Africa and our Products.



MyBigNano South Africa was established in 2010 with the aim to bring Nanotechnology coatings to South Africa.

Our Company was the first company in South Africa to do so by signing an exclusive territorial distributorship agreement with Nano4Life EUROPE, the global leader in Nanotechnology Coatings with Distribution in over 30 Countries and counting.

On a National Level, we offer ALL of Nano4Life's Sector Specific range and have established a Provincial operators' system. We currently have Operators in 6 of South Africa's 9 Provinces.

Internationally, **MyBigNano** is also present in Australia, Zambia and Turkey under the same System.



A South African First



In another South African First, MyBigNano Brings to you FlameOFF, the ultimate solution in Intumescent Fire Protection Technology. The prime product for Passive Fire Protection.

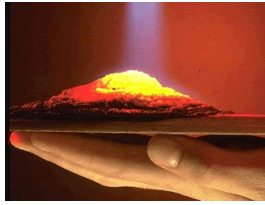
ARE YOU PROTECTED?

PASSIVE FIRE PROTECTION SAVES LIVES

Inquire about MBN FlameOFF



MBN FlameOff Pyro 500 Intumescent



PYRO 500



Bond PRO

Description:

FlameOff Pyro 500 is a new generation water based Nanotechnology product and is one of the only Nanotechnology products on the market that has been produced for Passive Fire Protection. FlameOff Pyro 500 is an intumescent, fire retardant of slurry plaster consistency. FlameOFF Pyro 500 is accompanied and applied with by Bond Pro (application ratios analyzed in the next page).

Basis Of Operation:

When a combustible surface is exposed to high heat and/or flame, the intumescent coating expands and forms a flame-imbued ash foam that expands and protects the surface to protect it against damage caused by overheating and destruction.

Modern FireProofing in the Modern Construction Industry:

Lately industrial and commercial frame building featuring supporting steel structures has been in great demand due to construction booms across the world. Construction methods like this have advantages over traditional brick masonry, monolithic construction and other kinds and this is affiliated chiefly due to reduced construction times, reduced costs and building weight. With new construction methods, new Passive Fire Protection methods (ie intumescents) have come into play.

Advantages of MBN FlameOff Pyro 500:

- ✓ Lightweight
- ✓ Forms thin layer
- ✓ Easy to repair after fire damage
- ✓ Excellent decorative properties



Applications:

- ✓ Interior & Exterior Steel beams and support structures.
- ✓ Columns
- ✓ Partition walls & flooring
- ✓ Tubing & Piping
- ✓ Timber & Electrical Cables



Application Procedure:

An air compressor, brush or textured sprayer can be used to apply MBN FlameOff mixture. Manual roller will also suffice.

In most cases it is better to apply two thin coats rather than one thick coat.



***First application: Insulation Grid Bond**

*** Second Application: Pyro 500**

Consumption-The following consumption Rates are Applicable:

- ✓ 1l/m2 for Insulation Grid Bond
- ✓ 0,5l/m2 for Pyro 500

Per 1 hour rating. For 2 hour rating, double the quantities (ie two coats).

Thickness Should be around 1mm per coat Allow 24 hours drying time between coats. Note that before applying Insulation Grid Bond, surface should be coated with a water based Primer, Preferably the one from Plascon.

Limitations:

Not recommended for use in extreme exterior environments or for interior steelwork that will be exposed to freeze/thaw cycling or long-term surface temperatures over 60°C in normal use.

Maintenance:

If coating becomes damaged after fire, damaged areas must then be abraded back to a firm edge by sanding or scraping. Surface must be clean and dry before reapplication.

Package Handling and Storage:

Shelf Life: 3 Months when kept in recommended storage conditions and original unopened containers.

Storage: Store indoors in a dry environment between 5°C - 35°C. Protect from freezing.

Packaging:

FlameOFF Pyro 500 Nano Intumescent set consists of 20L Pyro 500 in 20 Litre Container and BondPRO in 10 Litre Containers. Both are necessary for an intumescent Fireproofing Project.



Application Service and Price (optional):

Don't want the hassle of buying the product and doing the application yourself, we can send out a crew to come and do it for you. Contact us for a quote.