

NuPLUG 1120 Feedthrough sealant system



NuPLUG 1120 is a mortar used as a radiation and fire barrier in the sealing of penetrations, mainly in nuclear power plants or other nuclear sites.

This radiological mortar is used to seal electrical, mechanical and non-through-hole penetrations in walls and slabs, with a medium level of through-hole saturation. This mortar meets a variety of requirements, such as fire separation or the attenuation of gamma and neutron radiation. It can be completed with a waterproof or airtight coating

Key benefits

- Very little shrinkage and no cracking after drying
- Easy to apply
- Economical

Performance

- Fire protection : up to 2h according to the configuration
- Gamma, X and neutron radiation attenuation concrete equivalent
- Airtight, watertight and decontaminable if lining is added
- Water pressure resistant up to 1 bar on a through-bore or 2.1 bar on a non-through-bore
- reaction to fire A1

References

- EPR Taishan

Technical Data

- Qualification following the standard EN 1366-3
- EDF specifications
- Minimum thickness : 200mm
- Density of finished product: between 2,6 & 3

Options

- Additional waterproofing and decontamination requirements with additional coating (of NuCOAT 3110 or NuCOAT 7110)
- Installation of "réservation wedges", allowing subsequent repositioning of small crossings.

Application

- 2 possibilities of implementations:
 - manually, using a mortar pump
 - in pellet form
- Setting time: 10 to 12 hours
- Complete drying time : 28 days