GFM
NOVASIT BM

General information on the processing of fire protection mortar and fire protection compound

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Possible sources of error when processing mortar

Error	Suggested rectification
Cracks and tear-offs on metallic or mineral building elements (penetrations, reveals)	Degrease building elements with a suitable cleaner.
Insufficient adhesion on concrete or masonry	Prepare the surface accordingly (e.g. by pre-wetting).
Cavities and air bubbles in the mortar	Cavity-free and force-fitted processing is best achieved by applying the mortar in layers.
Rough, uneven surface	Once the mortar is surface dry (after 30-45 minutes), use a wet sponge board, a brush or a trowel to smooth the surface.
Cracks appear during drying at high ambient temperatures	At ambient temperatures above 25 °C, ensure permanent moistening to prevent the surface from drying too quickly.
Hairline cracks (caused by tension during drying)	Hairline cracks are superfical and have no implication on fire protection. To improve the appearance, we recommend treating the surface with a wet sponge.

Possible sources of error when mixing and pumping mortar

Error	Suggested rectification
Dirty machine	Clean machine completely. Good to excellent results in mortar processing can only be achieved by using a thoroughly cleaned and serviced machine. Judging from daily experience, we recommend assigning 45 minutes and two persons to every cleaning process.
Worn screw or screw cover	Replace the worn parts.
Exceeded pumping height or hose length	Find a better position for the machine. Use shorter hose lengths.
Overfilled machine	Remove material.
Contaminated mortar	Take note of the batch number or keep the empty bag. Isolate mortar samples and the remaining amount.

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Sequence batch processing

	Wear protective clothing and non-slip shoes.
	Use safety goggles, safety glasses.
	Use chemically resistant gloves. Recommended materials: butyl rubber, nitrile rubber, fluorinated rubber, PVC
	Use P2 particle filter in case of short-term or low level exposure. For intensive or prolonged exposure use a breathing apparatus with independent air supply. Use breathing protection in compliance with international/national standards.

- Connect hoses, check fittings.
- Fill with 5–10 l of water.
- Add a few squirts of detergent to the water.
- Start the machine (pumping position) to wet the hoses.
- Empty the hopper, then stop the machine.
- Fill with water:

GFM	4–5 l for 25 kg bag
NOVASIT BM	6–7 l for 20 kg bag

- Add one bag of mortar while the machine is in active mixing position.
- Mix for 2–3 minutes.
- Switch to pumping operation, pump until there is no more water in the hose und then pump into hopper.
- Check the consistency (it should be solid rather than soft), if necessary add mortar or water and mix again.

Suitable machines

Type	batch processing	continuous processing
Areas of application	standard	major projects
Possible types	Putzmeister Sprayboy P12, PFT Bolero	V.E.P. Baumaschinen Typ VR1, Putzmeister MP25, PFT G4, PFT Ritmo L
Model	screw D4 or D5 short	by arrangement