Magma Firestop® IMK-433

Product Information

Magma Firestop® IMK-433 is an efficient, water based fire retardant liquid, based on ammonium polyphosphate and other fire retardant additives. This ready-to-use, fire retardant liquid can be used for treatments of cellulose rich fabrics like cotton but also on synthetic fabrics like polyester, nylon and blends of natural and synthetic fibres.

Chemical and Physical Characteristics

Composition:	Phosphate/Nitrogen solution
Appearance:	Clear liquid
pH:	6,5
Density:	1,15
Viscosity:	10s.(DIN53211/4)
Reactivity:	Neutral
Shelf life:	In original, closed packaging at least 12 months when stored at temperatures between 5° and 40° Celsius.

Application(s)

TEXTILE

- Be sure that the fabric is clean (dirty, dusty fabrics will give stains when sprayed with this product.
- Be sure that the fabric is free of pre-treatment auxiliaries so that the fabric is absorbent. For this we recommend a pre-wash (also on new materials!).
- Be sure that the fabric is dry prior treatment (wet material will not absorb this product)
- Magma Firestop® IMK-433 can be applied by padding, spraying or coating, alone or in conjunction with binders.
- This product will tarnish metal (curtain rods, fabric staples, chrome legs, etc) so wipe off immediately if unable to mask.
- Depending on the material, requested fire retardant properties and soaking resistance the dosage level of Magma Firestop® IMK-433 will be approx. 80% on natural materials like cotton and wool, approx. 70% on blends natural fibers and synthetic fibers and 40% on 100% synthetic fiber material.(wet pick-up)
- Do not add water or change chemical composition in any way without consulting us.
- Fabrics finished with Magma Firestop® IMK-433 can be air dried but in industrial applications (stenter machine) treated material can be cured at temperatures up to 160°C. Normal drying conditions are around 110°C.
- User should determine the suitability of this product for its intended use. Magma Firestop® IMK-433 is ready to use and must be applied cautiously. Applicator should wear chemical gloves and goggles.
  Using a low pressure, handpump or electrical spray equipment, apply at 40-60 PSI using a fan spray tip, spray entire area and cover completely.
- Thick fabrics need to be treated from both sides, thin material can be treated from one side.
- **Ensure yourself about, the effectiveness and aesthetic results (color fastness etc.) of this treatment on a small, obscure area, before you treat the whole surface.**
- **Flush your sprayer thoroughly after treatment!**

Coating
For coating applications Magma Firestop® IMK-433 can be mixed with different binder/dispersion systems. Combinations with binders and dispersions need to be checked on stability prior to use.

Magma Firestop® IMK-433 does not give a wash permanent to fabrics. Fabrics finished with Magma Firestop® IMK-433 are not affected by dry cleaning solvents.

The soaking resistance can be increased by adding a fluorocarbon emulsion which will give the fabric, additionally water- and dirt repellent properties. Please contact us further for information about our fluorocarbon water and oil repellant product: Magma Hydro-Guard.

Because of the variety of different substrates and the different necessary add on, it is recommended that a preliminary small scale test is carried out prior to bulk processing.

Packaging / Storage / Transport / Regulatory Approvals

Packaging:	10, 25 kg cans or 250 kg drums or 1,000 kg IBC's containers
Storage:	Store in the original containers and protect from extremes of temperature, especially heat and direct sunlight.

Safety / Labelling / Toxicology

For detailed information on the safety and handling of Magma Firestop® IMK-433**,** please refer to our Material Safety Data Sheet.