

DINITROL 957 IQ FR

Sound reduction in perfection

DINITROL 957 IQ FR is a sprayable, waterbased flame retardant sound damping compound, mainly for use in applications where thin-walled (metal) sheets in e.g. trains, busses, cars, machine equipment, etc. need to be damped, so that vibration noise will be (significantly) reduced, and where flame retardant properties are desired.

- » **Sound reduction of trains, busses and recreational vehicles**
- » **Engine supports, e.g. for diesel engines**
- » **Motor rooms in shipbuilding**
- » **Air ventilation systems**
- » **Containers (e.g. garbage, glass containers)**



Equipment

Spatula, brush or specific spray equipment

DINITROL 957 IQ FR

Art. No.	Size	Package	Color
16023	35 kg	Pail	Black
16024	250 kg	Drum	Black

DINITROL 957 IQ FR

Technical Details

Product description

DINITROL 957 IQ FR is a sprayable, water-based flame retardant sound damping compound.

- Waterbased, environmentally friendly
- Waterproof, however may not be used constantly under water, coating has to dry from time to time
- Low VOC
- Fast drying
- Tested according to EN-45545-2; Fire-testing of materials and components for trains
- Paint compatible when dry; pretest recommended

Applications

Mainly used for applications where thin-walled (metal) sheets, e.g. trains, buses, cars, machine equipment, wash basins and sinks etc. where vibration noise

needs to be (significantly) reduced and where flame-retardant properties are desired.

Application for water-based silencers as a potential replacement for taped bitumen pads.

One of the critical elements is meeting the cycle time (drying time of the silencer on the objects) of the manufacturing process. Forced drying recommended.

Adhesion

The surfaces to be treated must be clean and free of grease. Un-galvanized steel sheet and raw aluminium sheet must be protected against corrosion as DINITROL 957 IQ FR is not a corrosion protective coating. DINITROL 957 IQ FR can be applied in thick layers up to approx. 5 mm without sagging.

Stir before use!

Method of use

DINITROL 957 IQ FR can be applied to small areas with a spatula. For larger areas secondary air spraying equipment should be used. In general all types of equipment with a theoretical transmission of 5:1 up to 12:1 are suitable, using a 3/5" hose up to 10 m in length and a spray gun with a 2–4 mm nozzle. The best compound intake pressure is 3–4 bar and 4–5 bar for the secondary air.

Alternatively, airless spraying equipment can be used, in which case we recommend a scoop piston pump with theoretical transmission of 55:1 and an airless spray gun with an adjustable nozzle. In this case the best pump intake pressure is 3–4 bar.

Pre-treatment Substrates

The surfaces to be treated must be cleaned and free of grease. Un-galvanized steel sheet and raw aluminium sheet must be protected against corrosion as DINITROL 957 IQ FR is not a corrosion protective coating. DINITROL 957 IQ FR can be applied in thick layers up to ca. 5 mm without sagging. For additional information, please consult DINOL GmbH.

Storage

The product should be stored at temperatures between +10°C and +30°C. Stored in a cool and dry place, the product has a shelf life of at least years in the unopened original packaging.

Safety precautions

Additional information can be found in the safety data sheet.

Transportation

Additional information can be found in the safety data sheet.

Hazards identification

2.1. Classification of the substance or mixture
GB CLP Regulation
Skin Sens. 1; H317

Technical Data

Base	Water-based plastic dispersion, synthetic resins, filler materials
Colour (standard)	black
Consistency	sprayable, can be applied with a spatula
Curing/setting method	Emission of water
pH-value (20°C)	approx. 8
Specific Density (20°C), DIN 5157	approx. 1.30 kg/l
Cleaning with	Water (fresh), mechanical, solvent (curing)
Solid content (DIN 53216) (3 hours at 120°C)	approx. 79%
Dry to touch (20°C, 50% R.H.)	approx. 270 min.
Drying time (20°C, 50% R.H.)	for thickness of 4 mm wet approx. 20 hours
Acoustic properties	depending on the thickness applied, „Oberst“ loss factor acc. to DIN EN ISO 6721-3; approx. 0.14 at 3 mm thickness
File properties	EN 45545-2; Class R-1
Usage	depending on desired sound damping effect, 2 – 5 kg/m ²
Temperature resistance (cured)	+ 120°C
Resistant (20°C), cured	water, aliphatic solvent, oils
Adhesion	on various metal surfaces
Available in	35 kg Pail / 250 kg Drum

For all relevant safety advices please read the material safety data sheet or the packaging label.