



## Protect BSF HVAC Insulation

### U Protect, solutions for fire resistant ducts

ISOVER solutions for providing fire resistance in HVAC applications by using high performing ULTIMATE mineral wool. Solutions in this brochure are designed for providing fire resistance in to metal ducts.



#### Fire protection

ULTIMATE provides effective fire resistance, but also very good performance in reaction to fire.



#### Indoor air quality

ISOVER HVAC solutions help to reduce the sources of pollution as they comply with all existing requirements for indoor air quality.



#### Fast Installation

ISOVER products are designed for ease and speed of installation.



Certified together with  
U Protect slab 4.0 and wired mat 4.0  
for fire protection of ducts.

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# Protect BSF

## HVAC Insulation



Characteristic	Symbol	Unit	Quantities and measured values	Standard
Application fields	-	-	ISOVER solutions for providing fire resistance in HVAC using ULTIMATE mineral wool. U Protect solutions provide an easy to install and lightweight efficient solution for fire resistance in HVAC.	DIN 4102-9 EN 1366-1 EN 1366-8
Material	-	-	Solvent free, pH-neutral, white, watery emulsion that forms an insulation layer. Protect BSF viscous paint is designed to be very thick and thixotropic and is used in order to create greater dry layer thicknesses (in one working cycle).	-
Thermal conductivities	-	-	Processing possible between 5 °C und 30 °C.	-
Thermal behaviour	-	-	Fire resistance of ventilation air ducts in fire classes EI15 - EI20.	-
Behaviour in fire	-	-	Building material class B2, normal flammable.	-
Chemical behaviour	-	-	Protect BSF fire safety paint viscous are not classified according to German law and therefore do not have to be labelled.	-
Miscellaneous	-	-	<p><b>Drying time</b> Touch dry after approx. 4 hours under normal conditions (20°C, 50% air humidity), completely dried corresponding to layer thickness and temperature after 24 to 48 hours.</p> <p><b>Functioning</b> When exposed to fire or heat, the product develops a micro-porous, insulating foam-layer, protecting cables and other surfaces from the influence of fire due to its low heat conductivity and the lack of oxygen. In case of fire, the function of electrical units will be extended, the flame spread reduced to a minimum and the forming of corrosive and toxic gases is reduced considerably.</p> <p><b>Processing</b> Brushing, Spraying, Rolling, as well Airless-Application. Surface should be clean, dry, free of grease and absorbent. According to application Protect BSF can be diluted with up to 10% clean water. Before use the material must be stirred well. Application masses as per approval. When applied by spraying, normal measures as for dispersion paints are applicable. Spraying dust should not be inhaled. Use eye and respiratory protection. Wet paint can be removed with water. A top coat is not necessary when applied in dry inside areas. For higher demands a top coat can be applied. Protect BSF is not weather or water resistant in their applied condition. Occasional surface cleaning with aqueous cleaning agents (e.g. once or twice a year) did not have, as far as we know, a negative influence on the fire retardant property of coatings. If you need a higher protection against humidity (e.g. in areas with condensation) you can use a suitable top coat.</p> <p><b>Storage/ Transport</b> The products have a normal shelf life of 12 months. After this time the product must be examined.</p> <p><b>Forms of Delivery</b> Storage and transport of the product: cold but free from frost. 15 kg PP-buckets with lid. 310 ml cartridges (12 units in a cardboard-box).</p>	-

[www.isover-technical-insulation.com](http://www.isover-technical-insulation.com)

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