

PU special solutions for corrosion protection



DENSO GmbH based in Leverkusen, Germany is a leading supplier of special solutions for corrosion protection including those based on polyurethane. Its DENSOLID® product range is a two-component coating solution to give optimum protection with excellent ease of use and process reliability. It consists of hot spray coatings, brush coatings, field joint coatings for trenchless pipe laying, pipe jacking, thrust-boring and HDD as well as PU-based special solutions for plastic pipes or ground-to-air transitions. The DENSOLID®-Isolierplatte is new to the product range.

DENSOLID®-Isolierplatte

The new DENSOLID®-Isolierplatte is made from polyurethane and gives reliable electrical insulation between cathodically protected pipelines and concrete foundations due to its highly electrically insulating characteristics. Discharge voltages are avoided or significantly reduced using this insulation.

The cross-linked molecular structure of polyurethane gives you significantly higher mechanical strength as well as

low creepage and therefore higher durability compared to alternative insulating boards made from other materials. In addition to this, DENSOLID®-Isolierplatte has very good thermal and chemical resistance.

The insulating board is suitable for the insulation of valve foundations (sliding footings) as well as for insulating pipelines at cable crossings and also for root protection matting thanks to its flexibility.

Processing

The insulating board measures 1 m x 1 m x 5 mm and weighs 5 kg, other sizes are available on request. It is inserted between concrete foundations and valve footings, such as described in the guideline GL 263-501 issued by Open Grid Europe, RWE, Thyssengas and Verbundgas.

You can achieve good bonding of the DENSOLID®-Isolierplatte to the steel surface using the polyurethane coating material DENSOLID®-FK2-C.

The insulating board should be slightly roughened and cleaned of any loose particles.

Casting sliding footing foundations using TOK®-MELT has also been proven. This is an encapsulation compound made from polymerised bitumen which provides additional protection and insulation for the foundation.

For the corrosion protection of sleeve pipes, the leading corrosion protection company based in Leverkusen recommends encapsulating with the permanently-plastic DENSO®-KS Masse.

Property	Unit	Typical value	Test Standard
Tensile strength	N/mm ²	>25	DIN EN ISO 527-3
Elongation at break	%	>600	DIN EN ISO 527-3
Hardness	Shore D	40	DIN ISO 7619-1
Dielectric strength	kV	>35	-
Volume resistivity	Ω m	3 x 10 ¹¹	DIN IEC 93

Typical product characteristics for DENSOLID®-Isolierplatte

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