



Technical Data

Bus Bar Coatings

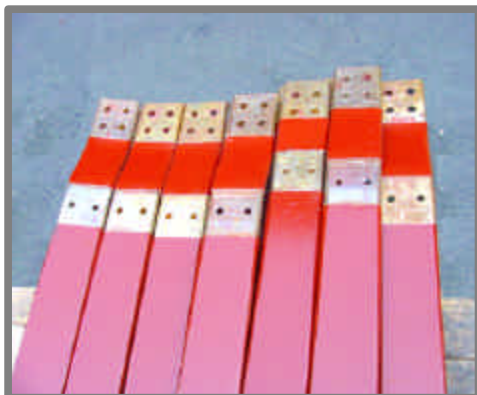
DESCRIPTION

Bus Bar Coatings are thermosetting epoxy powders specially formulated for electrical insulation applications. Like Fusion Bonded Epoxies (FBE), the epoxy is applied to preheated metal surface by the fluidized-bed process, as a dry powder which melts, cures and produce a uniform high film insulating coating with excellent adhesion, corrosion and chemical resistance and good combination of mechanical, thermal and electrical properties.

APPLICATIONS

Bus Bar Coatings are used primarily as insulation of aluminum bus bars, copper bus bars and other steel barrier materials. Available colour is in Brown-Red. Special colour of Blue-Grey is also available but requires certain minimum order volume.

It is important that these coatings should only be applied over a properly prepared substrate in order to ensure total adhesion. S3C can advise the best form of surface preparation for your particular application.



PRODUCT SPECIFICATIONS

Generic Type	Thermosetting Epoxy Powder
Density	1.44 +/- 0.09g/cm³, ISO 1183
Dry Film Thickness	Based on Electrical Application, Minimum 300 microns
Film Hardness	89 avg. Shore D, ASTM D2240-74
Dielectric Strength	1500 volts/mil, ASTM D149-97
Dielectric Constant	2.15 at 1 Mhz, ASTM D150
Volume Resistivity	3.3E15 ohm-cm, ASTM D257
Impact Resistance + 25°C (77°F) - 30°C (-22°F)	160 in lbs., ASTM G14-72 > 1.5 J Pass, ASTM G14-72
Tensile Strength	7,460 psi avg., ASTM D2370
Thermal Conductivity	0.19 +/- 0.02 BTU/hr./ft²/ft²F, ASTM C177
Chemical Resistance	Very Good (Contact S3C's Technical Department for further details)

OTHER PRODUCTS

S3C can also apply a vast range of other coating materials including epoxies, polyethylene, nylon, PVC, PTFE (fluorocarbons), EVA as well as a range of acrylic, SDIP, Polyester and PVDF architectural finishes.

For more information, please visit our website at <http://www.s3c.net> or e-mail us at sales@s3c.net. You can write or contact us too at:



Saudi Conduit Coating Company, P.O. Box 3298, Al Khobar 31952, Kingdom of Saudi Arabia
Tel: 966 (03) 847 3288 (6 lines) Fax: 966 (03) 847 2316

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