



BUS BAR INSULATION JUMPER COATING, SPROUTS & BUSHING COATING, EPOXY MOULDED CT / PT COATING

THE HY POXY SOLUTION



The bus bar flash over due to rat and lizards, Loss of glaze on insulator and bushings, Moisture absorption by Bus bar sprouts are the common problems faced by all the substation maintenance personnel.

HY POXY SYSTEMS INC. OF USA offers a time tested unique solution to address above issues.

INTRODUCTION OF "HY POXY SYSTEMS, INC," U.S.A :-

Hy Poxy Systems is one of the leading MRO EPOXY SOLUTIONS provider & a premiere formulator, manufacturer and worldwide marketer of quality epoxies. The company is headquartered at South Carolina USA & with the completely automated modern manufacturing facilities, provides internationally proven **Metal & Ceramic filled Polymer compounds for maintenance & repair solutions.**

The Hy Poxy Systems Inc. has pioneered the concept of "**COLD WELDING REPAIR TECHNOLOGY**".

Under "CWRT" technology, the bonding between metals and ceramics is achieved by cold chemical process and without any heat input as in the case of electric arc or gas welding process.



HY POXY PRODUCTS :-

Hy Poxy range of repair compounds are mostly 2 component systems consisting of the RESIN & HARDNER. The resin contains of finely powdered metals or ceramic suspended in an epoxy filler. The hardner is a chemical curing agent. When the resin and the hardner are mixed in the right proportions, the mixture quickly cures to form the solid mass.

Hy Poxy products are engineered to carry out fast insitu repairs and put damaged equipments back into service quickly.

The cured metallic mass will have comparable and often superior physical and chemical properties as compared to base metal.

PROBLEMS :-

- 1. SUB STATION INTERNAL BUS BARS & OPEN NAKED BUS BARS COATING.**
- 2. SPROUTS & BUSHING COATING.**
- 3. EPOXY MOULDED CT / PT COATING**

In the inside panel bus bars the flashover is a normal phenomena when external objects like rat, lizards goes inside. Similarly monkeys are the common cause of flash over in the outside open bus bars.

The flash over leads to :-

1. No Power situation.
2. Loss of revenue for the board.
3. Expensive maintenance to bring back the normal situation.

Bus bar sprouts normally absorbs the moisture during the rainy seasons & due to this their IR value goes down. This normally makes flash over in the bus bars as the bus bars are mounted on this component.

Outside mounted bushing normally loose the glaze due to continuous exposure to heat / water & dust. Due to above sometimes very heavy pitting are also observed. This leads to IR value of the bushing & sometimes also lead to sparking and flash overs.

The epoxy moulded CT /PT normally mounted outside absorbs the moisture in the rainy seasons. This brings down the IR value of the component & leads to flash over.

THE HY POXY SOLUTION :-

Many solutions have been tried out but with limited success and each solution have many limitations.

The Hy Poxy solution is a quick and easy solution and does not involve cumbersome procedures.

The Hy Poxy solution is consisting of two main products



1. Hy Poxy "CLEANER / CONDITIONER"
2. 2. Hy Poxy "CERAMIC HARD COAT - RED"

The Hy Poxy "CERAMIC HARD COAT - RED" is a normal curing product which has property of high dielectric strength (16KV / mm) with very good heat dissipation properties.

BRIEF PROCEDURE :-

1. Clean and roughen the area using the clean cloth and emery paper.
2. Clean and prepare the surface using the Cleaner / Conditioner.
3. Mix small quantity od Hy Poxy "CERAMIC HARD COAT - RED"
4. Apply by brush. The material is self setting type hence slowly will flow and set evenly.
5. If the pitting is heavy, then fill the pitting by using Hy Poxy "WEAR RESISTANT PUTTY". This is a ceramic filled putty have very high dielectric resistance.

TRAINING :- The operating staff of a substation can be easily trained to apply these products in case of emergency requirements.

Hy Poxy Systems also offers special training courses for group of operating and maintenance personals

The company offers application services through nation wide presence of techno commercial executive and managers, Team of skilled applicators along with wide network of authorized dealers located at strategic locations.

We provide complete MRO services like Maintenance survey, assessment of problems, Recommendation of suitable products and services & finally the complete application services.

We provide timely feedback with the data on financial savings by customers employing our services.

TESTIMONIALS :- The above products and methods are in extensive use in the main and sub stations of various electricity boards and also private power companies.

We can submit few case studies, performance certificates along with job completion reports and job photographs on demand.



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