

# IR & Glazy Improvement Coating

Application by ProCoat Specialities Pvt. Ltd.

## ThistleBond

A Division of E. Wood Ltd., U.K.



Ceramic portions of electrical equipment like CT, PT, transformer bushings, insulators installed in distribution substations located around factories, chemical industries, coastal area or switch yards located adjacent to cooling water towers in power generation units are subjected to "corrosion & moisture" effect by atmosphere. Dust, dirt in atmosphere will gradually settle over these ceramic portions. Because of continuous corrosion effect, ceramic portions initially loose their glazy surface. Once outer glazy area starts deteriorating, the porous construction of ceramic is exposed to polluted atmosphere and penetration of moisture begins. This reaction will reduce insulation values of ceramic portions. Since this is a slow and continuous process, one cannot find severity till the fatal occurs, also moisture entering into operating mechanism and low IR value is highly dangerous while equipment is in operation. These costly equipments are designed for long life. But because of above problem life expectancy will come down drastically.

ProCoat Specialities provides an excellent solution with world class ThistleBond high performance product for this problem.

### Product : Super Low Friction Efficiency Coating

'Super Low Friction Efficiency Coating' is a high performance solvent free, ceramic filled polymer product designed for resurfacing, protective coating over old, deteriorated, porous ceramic petticoats / skirts to improve insulation value and to regain lost glazy, smooth, dust proof surface and to protect from chemical, polluted atmosphere.



FEATURES	BENEFITS
Successfully passed 10000 hours of Salt Fog Resistance	Coated surfaces will be protected from atmospheric corrosion
Thixotropic coloured liquid	Facilitate to enter the finest pores of ceramic for in-depth sealing
Low Friction Surface	Results in smooth, glazy surface and protects from dust build up over petticoats
Dielectric Strength > 12 kV/mm	Facilitate in increasing IR value of entire ceramic surface



## PHYSICAL PROPERTIES (unaffected by total immersion)

Dielectric Strength	> 12 kV/mm
ASTM D149	
Dielectric Constant	4
ASTM D150	
Surface Resistivity	$7 \times 10^4$ ohms
ASTM D257	
Coverage per kilogram	2.7 m <sup>2</sup> @ 250 microns

**Note :** If the coating is proposed to get protection from moisture, corrosion and for regaining glazy finish, then 250 microns thickness of coating is sufficient.

### Surface Preparation

Surfaces which are intended to give protection should be thoroughly cleaned from dust, dirt. With coarse emery paper entire petticoat surfaces should be cleaned. After achieving possible rough surface, it is advisable to clean the surface again with ThistleBond 'Cleaner' to prevent deposition of any film formation.

'Super Low Friction Efficiency Coating' comes in two component system : Mix resin & hardener in 2:1 ratio by volume (if area for coating is more, then it is recommended to mix entire resin & hardener) thoroughly until single colour liquid appears. 45 minutes of working time is available for application. Use a short bristled brush and apply over prepared surface. An even coating will be obtained because of self leveling property of this product. Once entire surface is coated, leave the surface without touching by hand (to prevent any marks over it). Within 3 hours it attains its full curing (curing will not affect functioning of the equipment, i.e., after application of this product, equipment can put into operation in case of emergency). After cure, a smooth, low friction glazy surface will be achieved over the ceramic petticoats. And this appearance will not be affected by external corrosive agents for longer periods.

### Distributor catering to your needs



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