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# Conformal Coating



ProSoft’s products are optionally offered with conformal coating. This is a solution that is applied to the printed circuit board, to protect the product from various environmental conditions and pollutants. ProSoft uses HumiSeal 1A33, which is a Urethane. It is a robust coating, and well suited for harsh environments. The material will withstand and offer protection against the contaminants categorized in corrosion class G1, G2, and G3. Material is RoHS3 Directive 2015/863/EU Compliant.

## Equipment Reliability

Class	Severity	Description
G1	Mild	The environment is well controlled such that corrosion is not a factor to equipment reliability.
G2	Moderate	Corrosion effects are measureable in this environment, and could be a factor in equipment reliability.
G3	Harsh	There is a high probability that corrosive attack will occur in this environment. The harsh level should prompt further evaluation resulting in environmental controls or specially designed and packaged equipment.
GX	Severe	An environment in which only specially designed and packaged equipment would be expected to survive. Specifications for equipment in this class are a matter of negotiation between user and supplier.

ProSoft’s conformal coating offers this protection:

- High moisture resistance
- Excellent dielectric properties
- Excellent chemical resistance
- Repairable
- UL Approved
- MIL-I-46058C Approved
- Passes thermal shock test (MIL-I-46058C)
- Flammability (self extinguishing) (ASTM D635) and UL 94
- Excellent resistance to solvents (IPC CC 830/B)

ProSoft’s conformal coating meets or exceeds these standards:

- ANSI/ISA-S71.04-1985 “Environmental Conditions for Process Measurement and Control Systems: Airborne Contaminants”; Class G1, G2, and G3 Environments
- IEC 60654-4 (1987-07) “Operating Conditions for Industrial-Process Measurement and Control Equipment. Part 4: Corrosive and Erosive Influences.”; Class 1, 2, and 3 Environments
- MIL-I-46058C, Type UR (Urethane) to ASTM-G21 (Tropicalization and fungicide)
- ASTM D1475 “yes”
- FED-STD-141, Methods 4044, 4061 & 4287

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