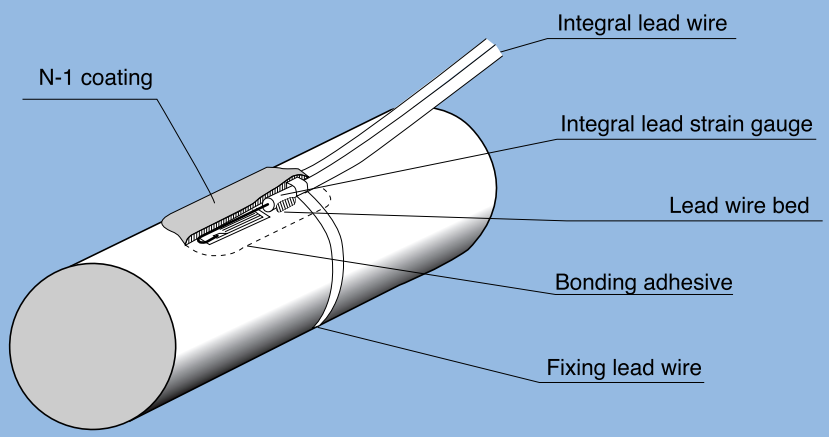
STRAIN GAUGE APPLICATIONS

Strain gauges are normally installed by bonding with adhesive or by spot welding. For bondable strain gauges, the surface of the test specimen must be suitably prepared, followed by bonding, wiring, and the application of a protective coating. For weldable strain gauges, rustproofing, welding and wiring are required. The following are typical installation procedures for various specimens.

WITH BONDABLE STRAIN GAUGES

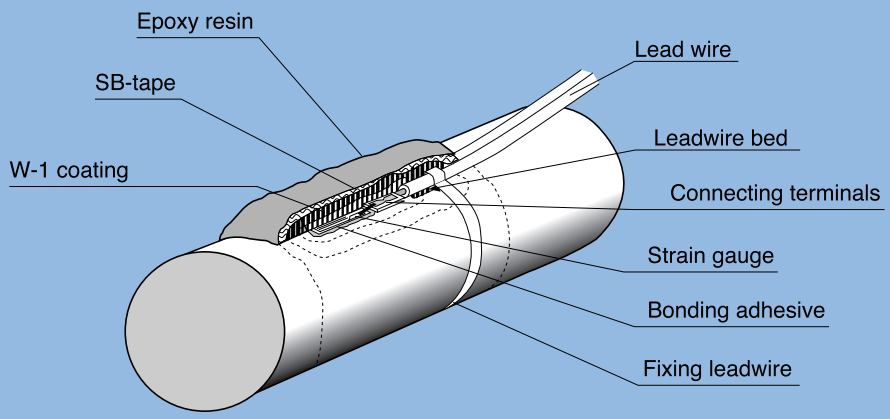
Metal surfaces

■Typical installation with bonding to metal surface for use in relatively well conditions such as in laboratory and short term period.



Metal specimen

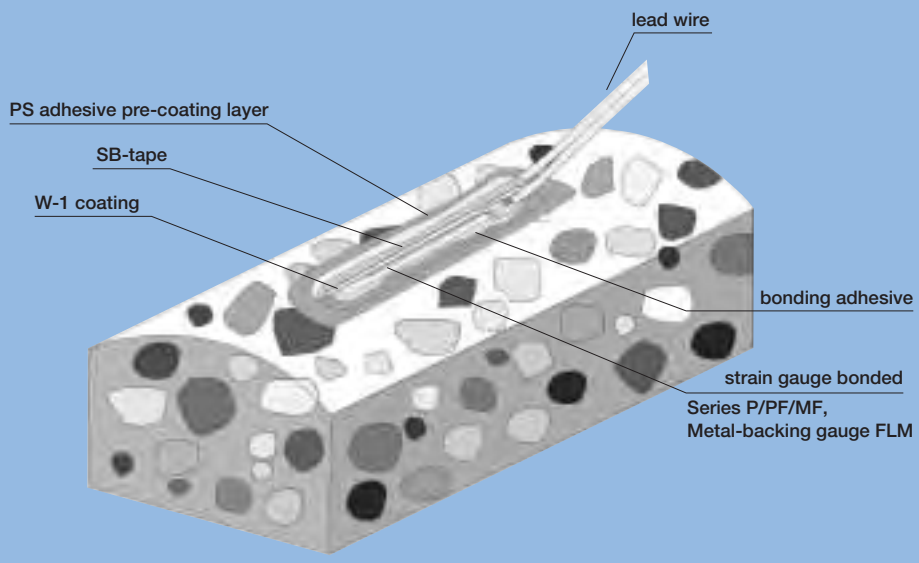
■Typical installation onto a metal surface for use in harsh conditions, such as under water for a long period or onto a reinforcing bar to be embedded into concrete.



Metal specimen

Concrete surfaces

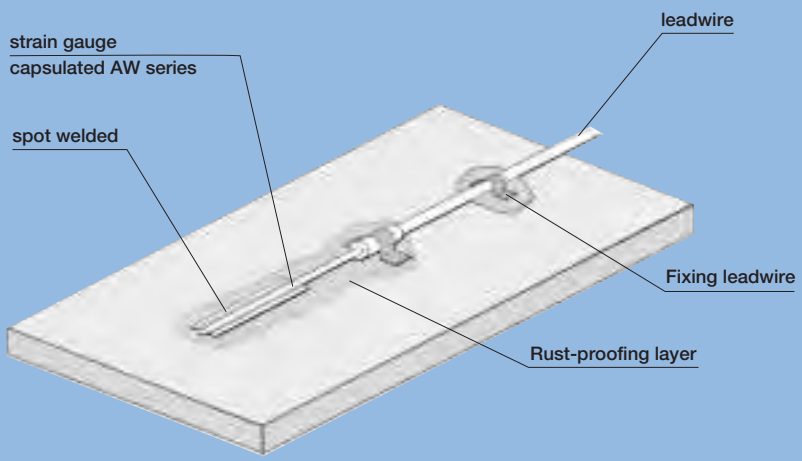
■Gauges are typically installed onto concrete surface or concrete specimens for loading tests. Stran gauges with an integral lead do not require lead wire connection with connecting terminals.



Concrete specimen

WITH WELDABLE STRAIN GAUGES SERIES AW

■These gauges are typically installed by spot-welding onto metal surfaces for use in harsh environments, such as on engines, heated turbines, or field sites for long periods.



Metal specimen

N.B.: For underwater use, an overcoating is strongly recommended to maintain the rust-proofing effect.