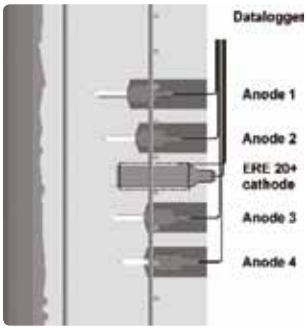
CorroRisk probe for detection of initiating corrosion in existing concrete structures

The CorroRisk probe has been developed for existing concrete structures and is based on the same measuring principle as the CorroWatch probe for new structures. The probe ensures that reinforcement corrosion may be predicted a long time before it is initiated.

The CorroRisk probe is usually placed in the concrete cover between the surface and the outermost layer of reinforcement. The measuring electrodes (anodes) are specially designed to be mounted in various, and well-defined depths of the cover layer. Measurements may be performed by use of an especially developed Ohm ampere metre (CorroZoa) or an especially designed data logger.

CorroRisk probes



Sketch of the CorroRisk probe

Application

In general, this probe is recommended for installation in all types of concrete structures exposed to aggressive corrosion, and in locations where visual inspections are not easily performed. Examples worth mentioning:

- Bridge piers in seawater
- Bridge decks and underground parking garages heavily influenced by de-icing salt
- Structural elements in public swimming pools.

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