

Standard Practice

Sacrificial Cathodic Protection of Reinforcing Steel in Atmospherically Exposed Concrete Structures

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Foreword

This NACE International standard practice presents guidelines for sacrificial (galvanic) cathodic protection (SACP) of reinforcing steel in atmospherically exposed concrete elements or structures. These guidelines target owners, engineers, architects and contractors, and those concerned with mitigation of reinforced concrete corrosion through the application of SACP systems.

The information in this standard, as it relates to SACP systems, is intended for atmospherically exposed concrete structures and is not applicable to concrete with nonferrous reinforcement, epoxy-coated, galvanized, or other types of coated reinforcement. SACP has been successfully applied to buried and submerged reinforced concrete structures; however, these applications are not addressed in this standard.

TG 047 is comprised of corrosion consultants, consulting architects and engineers, material manufacturers and suppliers, cathodic protection engineers, metallurgical engineers, researchers, structure owners, contractors, and representatives from both industry and government.

For more information on the various SACP systems that are commercially available, refer to NACE Publication 01105.¹

This standard was prepared in 2016 by Task Group (TG) 047 “Reinforced Concrete: Sacrificial Cathodic Protection of Reinforced Concrete Elements.” TG 047 is administered by Specific Technology Group (STG) 01, “Reinforced Concrete;” and is sponsored by STG 05, “Cathodic/Anodic Protection.” This standard is issued by NACE under the auspices of STG 01.

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