



Carboline Company
Executive Offices
350 Hanley Industrial Court
St. Louis, MO 63144
314/644-1000
FAX: 314/644-4617

THERMO-LAG 270 FIRE RETARDANT COATING
FOR ELECTRICAL POWER AND CONTROL CABLES
TECHNICAL SUMMARY

PRODUCT DESCRIPTION

THERMO-LAG 270 is a single pack, water based, flexible mastic fire protective coating for cables and cable trays.

FEATURES

Approved for exterior use

Flexible

Water based, low odor

QUALITY ASSURANCE / QUALITY CONTROL

Manufactured under Carboline's ISO 9000 Det Norske Veritas (DNV) Standard

CHEMICAL RESISTANCE (atmospheric/fumes)

Salt:	excellent
Acids:	very good
Alkalies:	very good

HISTORY

30 + years of exterior exposure with excellent results

ENVIRONMENTAL TESTS CONDUCTED BY FM GLOBAL

1 Immersion:

A 3 ft (0.9 m) length of cable coated with THERMO-LAG 270 was subjected to a salt water test consisting of 8 hours submerged, alternating with 16 hours of drying in a 24 hour span over a 30 day period using a 1% salt solution with a water temperature of 150 F (66 C). At the end of this period, the sample was allowed to dry for 36 hours. There was no disintegration or deterioration of the coating from this exposure. The cable sample was then subjected to a fire test with satisfactory results.

1. Freeze / Thaw:

Two 3 ft (0.9 m) lengths of cable covered with THERMO-LAG 270 were subjected to alternating temperatures of 160 F (71 C) and -40 F (-40 C) for 24 hour periods over a two week duration. At the end of this accelerated aging test, the sample cables were then subjected to a fire test and a high potential test. The results of these tests were satisfactory.

ISO 9000 Registered Company