

Third Pacific Area Meeting Papers

Symposium on

BITUMINOUS WATERPROOFING AND ROOFING MATERIALS



Published by the
AMERICAN SOCIETY FOR TESTING MATERIALS
1916 Race St., Philadelphia 3, Pa.

ASTM Special Technical Publication No. 280

SYMPOSIUM ON BITUMINOUS WATERPROOFING AND ROOFING MATERIALS

Presented at the
THIRD PACIFIC AREA NATIONAL MEETING
AMERICAN SOCIETY FOR TESTING MATERIALS
San Francisco, Calif., Oct. 16, 1959



Reg. U.S. Pat. Off.

ASTM Special Technical Publication No. 280

Price \$2.50; to Members \$2.00

Published by the
AMERICAN SOCIETY FOR TESTING MATERIALS
1916 Race St., Philadelphia

© BY AMERICAN SOCIETY FOR TESTING MATERIALS 1960

Library of Congress Catalog Card Number: 60-12253

Printed in Baltimore, Md.
August, 1960

FOREWORD

This Symposium on Bituminous Waterproofing and Roofing Materials includes the papers presented at two technical sessions held on Friday, Oct. 16, 1959, during the Third Pacific Area National Meeting of the Society at San Francisco, Calif. The sessions were sponsored by ASTM Committee D-8 on Bituminous Materials for Roofing, Waterproofing, and Related Building and Industrial Uses.

"A Statistical Study of Weatherometer Data on Coating-Grade Asphalts" by S. H. Greenfeld, E. W. Mertens, and P. W. M. John is also included in this volume. This paper was presented before Committee D-8 at a meeting held in Atlantic City, N. J., on June 24, 1959.

Mr. A. B. Brown of the Standard Oil Co. of Indiana acted as symposium chairman. Mr. F. D. Tuemmler, Shell Development Co., and Mr. P. E. McCoy, American Bitumuls and Asphalt Co., presided over the first session; Mr. G. E. Manning, Underwriters Laboratory, presided over the second session.

NOTE.—The Society is not responsible, as a body, for the statements
and opinions advanced in this publication.

CONTENTS

	Page
Introduction—A. B. Brown.....	1
Composition and Rheology of Roofing Asphalt—A. B. Brown and J. W. Sparks....	3
Discussion.....	19
Some Qualitative Effects of Composition and Processing on Weatherability of Coating-Grade Asphalts—E. W. Mertens and S. H. Greenfeld.....	20
A Statistical Study of Weatherometer Data on Coating-Grade Asphalts—S. H. Greenfeld, E. W. Mertens, and P. W. M. John.....	29
Manufacture and Application of Asphalt Roofing—L. C. Haack.....	38
Asphaltic Grouts, Mastics, and Cold Applied Cements—W. L. Butterfield and Fred H. Haney.....	44
Glass-Fiber Felt Roofing Products—J. G. Hayes.....	48
Discussion.....	51
Industrial Pitches—C. U. Pittman and J. W. Donegan.....	52
Coal-Tar Flat-Roof Pitch—W. F. Fair, Jr., and M. D. Chamberlain.....	59
Discussion.....	74

