

Workmen love to use foster H.I. Mastic

No other fibrated asphalt emulsion responds so easily, trowels or sprays so easily, as Foster H. I. Mastic 90-7. Workmen enjoy the smoothness of its application—and they know they won't have to patch cracks in H. I. Mastic around corners of insulated tanks and equipment, as they must do with the usual asphalt weathercoating.

Easy workability makes for reduced labor costs in applied insulation. The easy troweling and rugged durability of Foster H. I. Mastic result from specialized formulation for the job to be done; and users' confidence in H. I. Mastic is assured by our exacting care in maintaining uniformity. U.S. patent 2,129,416 protects Foster's unique combination of asbestos fibers, colloidal clay, and blended petroleum asphalt. Ideal as a weatherproof and breathing surface on equipment, H. I. Mastic is also appropriate as an insulation surface coating inside cooler or freezer rooms. In fact, wherever you need an ideal breathing mastic coating that won't shrink and crack from weathering, or deteriorate under rough treatment, there's a job for Foster H. I. Mastic 90-7.



Application of H. I. Mastic to interior of boiler room (Foster Specification 1).

H. I. Mastic has not cracked or shrunk at this critical corner of insulated outdoor tank. Application is Foster Specification 2.

BENJAMIN foster COMPANY

4635-37 W. Girard Ave., Philadelphia 31, Pa.

See the Foster catalog in Sweet's Plant Engineering and Industrial Construction Files for 1953

More TECHNICAL BRIEFS

these to us are the most promising closed cycle gas turbine is not a universal power plant but it can do better in some fields than others of plants, and only time will tell and other thermal power plants produced since the war to find their place in the power generating ASME Paper No. 52-A-137.

Rotary Regenerative Air Preheaters and Gas Turbines. By A. T. Bowden and Illynsiak, C. A. Parsons & Co.

The advantages of the regenerative type heat exchanger are that small diameter diameters can be readily obtained, and that when the counterflow arrangement is used, the matrix is self-cleaning to some extent, particularly during that part of the operating cycle when high velocity pressure differences are expected. Against this must be taken the cost of providing an efficient seal between the air and gas flows.

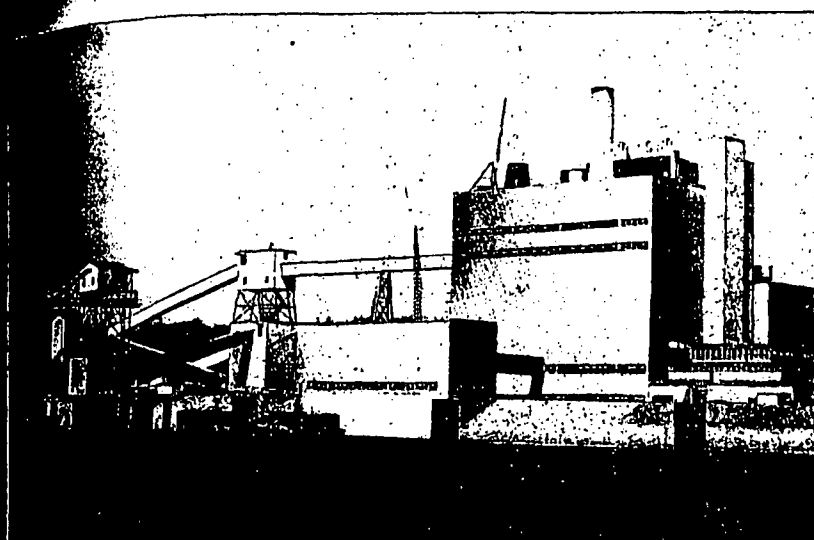
In comparison, if flame trap regenerators are employed in both, the recuperator can be designed to have hydraulic diameters of the same order as the regenerator. The matrix, however, is not self cleaning, and thus continuous outside provision must be kept it in working order. This necessarily involves an equivalent power but one which can justifiably be compared with the auxiliary power of the regenerator. The separation of the gas and air flows, however, is made in the matrix itself, which eliminates the problem of cheap and efficient manufacture.

The inter-relation of these advantages and disadvantages especially concerning the problem of sealing the regenerator, and the effective cost solution, will be the main criteria in the assessment of the relative merits of the two types of heat exchanger. ASME Paper No. 52-A-74.

Miscellaneous

Design and Calibration of A Cavitation Laboratory. By H. A. Mann and R. S. Sproule.

The Dominion Engineering Works Ltd. new cavitation laboratory described in this paper is used for testing a wide range of hydraulic turbine model signs, from Francis types with speeds as low as 18 under heads as low as 80 ft. to propeller types with speeds as high as 180, under heads up to 25 ft. The paper covers many features provided in the laboratory insure accuracy of test results and reduce operating costs and includes



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Pittsburgh gained 95,000 kw of electric power capacity when the first unit of Duquesne Light Company's New Elrama Power Station recently went into operation. Dravo Corporation handled all phases of construction on a single-contract basis under the direction of Duquesne Light Company's Engineering and Construction Department. Two additional units now being installed will add another 215,000 kw.

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ing station, pipe-line facility, water or waste treatment plant.

Many customers have taken advantage of Dravo's 60 years of experience in all types of engineering construction and have benefited through the savings made possible by Dravo's single-contract responsibility.

Dravo considers customer satisfaction an essential factor in all its products and services. DRAVO CORPORATION, PITTSBURGH, PENNSYLVANIA.

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