

KLEINPOLDERPLEIN MOTORWAY JUNCTION ON THE OUTSKIRTS OF ROTTERDAM, NETHERLANDS.

JOB RECORD
N° 2

P.A. 103 the only “accepted” bonding agent that could ensure the efficient transmission of stresses between these 40 ton pre-fabricated sections of concrete under adverse weather conditions.



Few of the 500.000 motorists who use this modern freeway junction each week realize that these overpasses were bonded together with P.A.103 Sinmast Bonder, a unique job-tested formulation of modified epoxy resins.

Only P.A.103 Sinmast Bonder had the ability for rapid curing and development of strength during minus working temperatures and wet conditions. P.A.103 epoxy adhesive played an essential part in achieving the required speed of building these overpasses allowing to complete in three days a span containing ten pre-fabricated sections.

This product should be used whenever precast concrete projects need structural bonding, insuring complete water proofing and the welding of two or more sections together.



PREFABRICATED SECTIONS

Spans vary in lengths from 26 to 35 metres; the pre-fabricated sections are each about 3 metres long and weigh on average some 40 tons. After the hammerhead section is placed on the column the clearance remaining is filled with a specially formulated grouting compound based on E/2 epoxy binder and quartz aggregate. The rapid setting rate and development of strength of the E/2 epoxy compound play an essential part in achieving the required speed of building.



APPLYING SINMAST BONDER

Sinmast P.A.103 is a two-component epoxy adhesive which is mixed thoroughly shortly before application to the contact surface. It may be applied with a spatula, rubber glove or fibre brush.

Since the maximum strength is higher than that of concrete and is reached much more quickly than that of concrete cast *in situ*, the time required between the fitting into place of successive sections is reduced by a factor of eight.



LOWERING SECTION INTO PLACE

Placing the new section must be carried out rapidly before the Sinmast Bonder hardens. Any uneven area on the treated surface are filled with P.A.103 adhesive paste and even pre-stressing may then be carried out.



SEAMED SECTION

Preliminary prestressing is carried out as soon as possible, these forces any excess of P.A.103 Adhesive out of the joint and ensures that the joint is under a pressure of 3 to 4 kgf/cm² while is hardening.



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