



SIKA AT WORK

AMRELI STEEL PRODUCTION UNIT, DHABEJI, KARACHI

**SIKA SELF-LEVELING FLOORING SOLUTION FOR
INDUSTRY**

BUILDING TRUST



AMRELI STEEL PRODUCTION UNIT PROJECT, DHABEJI KARACHI SEAMLESS & DURABLE FLOORING SYSTEM

Project:

Amreli Steels Limited is one of the largest manufacturers of Steel Reinforcement Bars in Pakistan. Situated in the industrial hub of Karachi, Dhabeji Amreli Steel is proudly manufacturing next generation 500MPA High Strength Deformed Bars, the backbone of modern construction throughout the world. Company's production unit at Dhabeji produces bars up to 30 tons per hour which translates into an annual production capacity of 180,000 metric tons making it the best in Pakistan.

Project Requirements:

The Amreli family has been in the business of steel manufacturing for over 50 years. With its priceless contribution to the nation's infrastructure, Amreli Steels Limited has become a household name in Pakistan's construction industry. The company's billet manufacturing plant is installed with cutting edge technology and standards. Considering Amreli's strict compliance to health and hygiene standards when the question of flooring in the production unit came up Sika flooring was selected. Sika is a worldwide technology leader in seamless flooring. Keeping in view the quality stringent requirements of Amreli Steel Sika offered its Self-leveling flooring in CNC Room, Compressor Room and Electrical Unit Room comprising of 20,000 Sq ft area in total. Sika's Self-leveling flooring strikes a unique balance between ease of cleaning and slip resistance to meet the requirements of efficiency and hygiene, plus health and safety. In addition to this, epoxy primer was used with the flooring as an Intermediate layer underneath flooring.

Sika Solution:

Sika has continued to strengthen its position as the worldwide market leader in construction chemicals. As part of this expansion, Sika has maintained a strong focus on providing flooring and coating systems for different applications. Sika suggested its self-levelling flooring at Amreli Steel's production unit. Flooring was done at an estimated area 4000 Sq ft in CNC Room, 2500 Sq ft in Compressor Room and 5700 Sq ft in Electrical unit room subsequently. Sikafloor-264 is a Roller coat for concrete and cement screeds with normal up to medium heavy wear e.g. storage and assembly halls etc.



Sikafloor-264 was recommended due to its durability, easy application & good mechanical & chemical resistance even under tough climatic conditions at different areas of production unit. Sikafloor-264 was applied at a thickness of 2mm. In addition to this, Sika primers were recommended before the application of flooring and after the application of cementitious floor leveling compound. Sika Primer 1 was used for priming before Sikafloor 300 Level for good adhesion to the latter product. Sika Primer 1 was used at 0.07 kg/sq ft. Accordingly, Sikafloor 300 Level was suggested which is a floor leveling compound used for filling, smoothing and levelling of suitable substrates before the application of Sika flooring. Sikafloor-300 Level was applied at a thickness 6mm cementitious level. Sikafloor-300 Level has a very low shrinkage and good self levelling properties. Lastly, Sikafloor 161 was also used for priming concrete substrate before self-leveling flooring was done. Sikafloor 161 is an epoxy primer, levelling mortar which is used an intermediate layer underneath Sikafloor 264. Sikafloor 161 was applied at a thickness of 0.3mm Sqm.



Final look of Flooring at Amreli Steel Production Unit CNC Room, Dhabeji Karachi

Project Name: Amreli Steels Production Unit,
Karachi

Project Owner: Amreli Steels Ltd

Consultant: Amreli Steels Ltd.

Applicator: Athena Chemicals Ltd.

Sika Pakistan Pvt. Ltd.
141, CCA, Phase 4, DHA
Lahore, Pakistan
Tel: + 92 42 3569 4266-67
Fax: +92 42 3569 4268

Web: pak.sika.com
Email: information@pk.sika.com
facebook.com/SikaPakistan.Pvt
twitter.com/SikaPakistan

BUILDING TRUST

