



SIKA AT WORK

ARAB AMERICAN VEHICLES FACTORY AAV CAIRO SUEZ DESERT ROAD

SEALING & BONDING : Sikaflex®-1A

FLOORING : Sikafloor®-161 , Sikafloor®-264 , Sikafloor®-925I

BUILDING TRUST



ARAB AMERICAN VEHICLES FACTORY AAV

PROJECT DESCRIPTION

Arab American Vehicles Company is a manufacturing joint venture between the Arab Organization for Industrialization and Chrysler LLC. The plant (120,000 square meter) facility located on the outskirts of Cairo was established in 1977 and produced its first vehicle in 1978 (Jeep CJ-6). A workforce of 680 builds 17,600 vehicles annually.

Initially AAV was established to serve the Egyptian and Arab military forces by providing them with the American CJ-series Jeep vehicles, the descendants of the world's first four-wheel drive military vehicle, the Willys. After meticulous testing, the armed forces of several Arab countries chose the CJ over other vehicles.

AAV also builds Jeep Cherokee (Liberty in the U.S.) for retail sale in the region. AAV-manufactured vehicles are comprised of 45 to 47 percent local content.

PROJECT REQUIREMENTS

- The new Assembly Line required a mechanically and chemically (petrol and oil) resistant floor finish that would require only minimum maintenance in the future. The budget was limited, and a cost effective solution was very important. There was also another important requirement on this project, fast completion in the shortest possible time to avoid any down time for the production team.

Opening and filling the floor joints with:

- Traffic bearing and high mechanical strength joint sealant to resist loads resulting from cars, fork lifts, and cleaning machines passing over in order to ensure long term functionality.
- Perfect adhesion to the joint edges that the joint remain tight at all times.
- Capable of accomodating joint movement to ensure excellent performance.



Sika Solution:

- Sika is coming with its street fighter, widely used and different flooring epoxy systems for each part of area based on the mechanical, impact loads subjected on the surface. Epoxy mortar, epoxy self-leveling and coatings as well were recommended from our side to the client to meet the whole requirements technically and commercially.

SikaFlex 1 A:

- Excellent adhesion without primer on most substrates.
- Outstanding aging and weathering properties.
- Fast tack-free and final cure times.
- Good chemical resistance
- High elongation and excellent adaption to joint movement.
- High mechanical properties.

- Application Steps:

- Insert a fitting backer rod to the required depth.
- Fill the joint with sikaflex 1 A avoiding air entrapment.
- Press the sealant against the joints flanks to ensure good adhesion and remove any material excess.
- Smooth the joint with smoothing liquid for a perfect Sealant surface.



Why Sika:

- Sika is globally recognised as the Worldwide market and technology leader in Elastic Polyurethane (PU) sealants. With more than 60 years experience in Sealants and Sealant applications, references on all continents and in all climates Sika's product Portfolio is designed to fit all requirements reaching from high movement capability to superior UV and chemical resistance.
- Sika global has a great reference at the Automotive field generally and Sika Egypt does have in particular. Due to this reference and the experience we gained of recommending the most suitable flooring systems fits the surface requirement and by choosing the right partner (Applicator) who can accomplish the job in a professional way.



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PROJECT PARTICIPANTS:

Owner: Arab American organization factory (AAV) .
Contractor: Diamond For Contracting

Products Delivered:

• Sikaflex 1 A	8000 LM
- Total area for Epoxy Flooring	20000 m2
• Sikafloor - 161 Primer	5 tons
• Sikafloor - 161 mortar	30 tons
• Sikafloor - 264	10 tons
• Sikafloor - 925L	10 tons

For More Projects Information



http://egy.sika.com/en/group/Publications/Sika_At_Work.html

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