



SikaCor[®]-146 DW
FAST CURING TANK LINING
FOR STEEL AND CONCRETE

BUILDING TRUST



INTERNAL TANK LINING

SikaCor®-146 DW

FAST - RESISTANT - SUSTAINABLE

THE SOLVENT FREE 2-PACK COATING is shock, impact and abrasion resistant. This fast curing product meets all requirements for application in drinking water schemes plus it is suitable for storing wine and sparkling wine as well as acidic, alkaline and oily foodstuffs.

YOUR BENEFITS AT A GLANCE

FAST CURING COATING

AFTER
24 H
READY TO USE

FIELD OF APPLICATION

Internal coating for constructions in the food and beverage industry as well as in drinking water supply:

- Tanks
- Silos
- Vessels
- Pipelines



FAST CURING

The surface is ready for use after 24 hours.

EXCELLENT ADHESION

on steel or concrete surfaces.

SOLVENT FREE

100 % solids, benzyl-alcohol-free.

EASY HANDLING

Application in one coat.

KIWA CERTIFICATION

and approved for drinking water.

HIGHEST SENSITIVITY IN DEALING WITH WINE AND FOOD

TANKS IN THE WINE sector must be able to withstand heavy loads and have specific properties for this quality-sensitive application. This requirement applies in particular to tanks in which high-quality wines and foodstuff are stored. For such applications, the ambient conditions must be carefully adapted to the products and their storage processes.



SikaCor[®]-146 DW...

... MEETS HYGIENIC REQUIREMENTS.

In order to keep microbiological contamination in the wine industry tanks as low as possible, it is important to select materials which show no particle emissions, no outgassing (TVOC) and are not microbiologically metabolizable.



... MEETS PHYSIOLOGICAL REQUIREMENTS.

Internal tank coatings must not cause any outgassing of volatile organic substances. From the point of view of health and quality, there must be no negative influence on the product - wine - and the consumer - human being.



... ENABLES SHORT CLEANING PERIODS.

The pore-free, jointless and abrasion-resistant surface can be cleaned very easily and quickly, thus enabling a short downtime during the production process.



... IS MECHANICAL AND CHEMICAL RESISTANT.

It is characterised by very good protection against impacts and shocks as well as good chemical resistance. The material must be resistant to detergents and to the fruit acids contained in the wine.



OBJECT REPORT

MEET THE REQUIREMENTS OF WATER SUPPLY SCHEMES

AQUATERP WATER SUPPLY RESERVOIR IN LELYSTAD was completely renovated with SikaCor®-146 DW and now the inhabitants of Lelystad are supplied with clean drinking water. The site includes concrete clear water vessels in which the drinking water is stored. These reservoirs are intended to smooth out the spikes in the consumption of drinking water.

The renovation of the vessel was approved during the tendering process by GMB Services B.V. Both, the inside and outside of the cellar was tackled, involving a range of civil and construction work. The storage room was also adapted to meet the requirements currently being set here. Clear water reservoirs are generally defined as restricted areas due to contamination and hygienic control reasons. On completion of the work, the reservoir was again thoroughly disinfected and the water quality tested before it comes out of the tap again. In addition to the hygiene and quality regulations, Vitens was setting high requirements for the companies with which they collaborate. The sustainability aspect in particular is an important part of the tendering process. Both Sika and GMB Services attach importance to the CO₂ footprint in which sustainability is an important part of the business operation.



The floors inside the reservoir were fitted with an old epoxy coating that was still in good condition. To begin with, the concrete walls were cleaned by using water jets, when the slackly concrete was removed. A filler layer with Sika® MonoTop®-723 N was applied to the concrete walls to plug imperfections and pores. After a short drying period, a second and then a final layer of SikaCor®-146 DW can be applied in a bright blue colour. This epoxy coating, which is specifically suited to drinking water applications, is free of benzyl alcohol. The coating is applied in two layers using a spray application which helps speed up implementation.

SikaCor®-146 DW is KIWA ATA certified to be applied in drinking water systems according to BRL K19002. GMB Services as applicator is certified for the application thereof under BRL K19004. A triangular warranty is jointly issued for this project, which was completed after a period of eight weeks.



PROJECT DETAILS

OBJECT
Aquaterp water supply reservoir in Lelystad, Netherlands

BUILDING OWNER:
Vitens N.V.

APPLICATOR:
GMB Services B.V.

PRODUCER OF COATING SYSTEM:
Sika Deutschland GmbH

DISTRIBUTOR OF COATING SYSTEM:
Sika Nederlands B.V.

PRODUCTS:
■ Sika® MonoTop®-723 N
■ SikaCor®-146 DW



SIKA PRODUCT RANGE OF INTERNAL LININGS FOR TANKS AND CONTAINERS

SIKA OFFERS A WIDE RANGE of specific products for tanks and containers with the most various filling materials. Internal tank coatings are more or less essential in order to be able to meet the expected mechanical, thermal and chemical requirements. Many years of experience and our wide product portfolio give you the certainty of getting the right system solution for (almost) any requirements.



APPLICATION FIELD	PRODUCT	CHARACTERISTICS
Drinking water and foodstuff	SikaCor®-146 DW	2-pack epoxy resin coating for steel and concrete with 100 % volume solids, fast curing
	Sika® Permacor®-2807 HS	2-pack epoxy coating with 100 % volume solids and applied with 2-pack hot-spray equipment
	Icosit TS-687	2-pack, fast-curing, single layer coating material based on polyurethane, 100 % volume solids and can be applied with 2-pack hot-spray equipment.

INTENSIVELY TESTED AND PROVED FOR MANY YEARS



APPLICATION FIELD	PRODUCT	CHARACTERISTICS
Oil, gas and chemical market	Sika® Permacor®-2807 HS A	Conductive 2-pack epoxy coating with 100 % volume solids and applied with 2-pack hot-spray equipment
	Sika® Permacor®-138 A	Conductive 2-pack epoxy coating with 100 % volume solids
	SikaCor® VEL	Glass fibre reinforced, 2-pack vinyl ester based laminate system



APPLICATION FIELD	PRODUCT	CHARACTERISTICS
Waste water	Sika® Permacor®-3326 EG H	High-solid 2-pack epoxy coating
	SikaCor®-299 Airless	Low solvent and highly resistant 2-pack epoxy coating
	Sika® Poxitar® F	Resistant 2-pack coating of low solvent content based on an epoxy-anthracene oil-combination with mineral fillers

OUR COMPETENCE

THE BUSINESS UNIT INDUSTRIAL COATINGS of Sika Deutschland GmbH develops, produces and sells high-quality coatings for corrosion and fire protection. We can look back on a long and successful story with numerous innovations.

APPLICATION AREAS

CORROSION PROTECTION

TRAFFIC CONSTRUCTION



- motorway bridge / road bridge
- railway bridge
- suspension bridge
- walkway

STEEL STRUCTURES



- port facilities
- centers for culture and events
- airports
- railway stations

HYDRAULIC STEEL STRUCTURES



- waterways
- port facilities
- flood protection
- steel sheet piles

FIRE PROTECTION

FOR STEEL



- solvent-free systems
- water-based systems
- solvent-based systems

TANK PROTECTION



- tanks
- silos and vessels
- pipeworks
- secondary containment

CHEMISTRY AND INDUSTRY



- mineral oil industry
- plants in atmospheric conditions
- refineries

POWER SUPPLY



- power stations
- pipelines
- wind energy
- mast coatings

FOR WOOD AND CONCRETE



- timber construction elements
- concrete

Innovative products combined with high economic efficiency are the contribution to social responsibility as well as ecological and social awareness. The use of modern, high-quality coating materials with a low VOC content, optimum processing properties and a long durability is the claim that Sika Deutschland GmbH fulfills in a wide variety of applications areas.

GLOBAL BUT LOCAL PARTNERSHIP

WITH OVER 100 local subsidiaries with the aim to make global technology meet local expertise, Sika transfers know-how locally on a global basis to guarantee local support in selection, validation and application of our products on job sites around the world.



Find your local Sika subsidiary on www.sika.com and contact them for any requires.

WORLDWIDE SYSTEM SOLUTIONS FOR CONSTRUCTION AND INDUSTRY



ROOFING



CONCRETE TECHNOLOGY



WATERPROOFING



CORROSION AND FIRE PROTECTION



SEALING AND BONDING



FLOORING



PROTECTION AND REFURBISHMENT



INTERIOR FINISHING



**ADHESIVES AND SEALANTS
FOR INDUSTRIAL PRODUCTIONS**

As a subsidiary of the globally operative Sika AG, Baar/Switzerland Sika Deutschland GmbH is one of the leading suppliers of building chemical product systems as well as sealants and adhesives for industrial manufacturing.



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