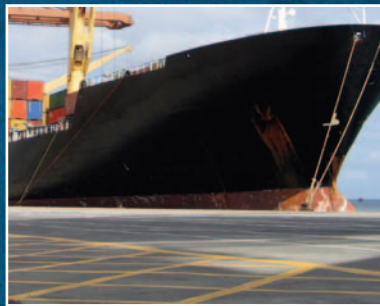


Chem-Crete  
CCC100

PAVIX

the **ultimate** concrete  
protection solution



infrastructure

marine

heritage

rail

Chem-Crete  
CCC100

PAVIX®



## advantages and benefits

**prevents penetration of chloride ions  
from de-icing salts**

**eliminates damage caused by  
repeated freezing and thawing cycles**

**provides permanent internal  
waterproofing and moisture blocking  
from positive and negative sides**

**excellent repelling property  
preventing water, jet fuel, and oil  
penetration from the surface**

**resists aggressive chemical such as  
acids, caustics jet fuels and oil**

**protects reinforcing steel bars  
against corrosion without any  
negative effect on existing steel  
cathodic protection**

**enhances the adhesion property of  
joint sealant and pavement markings**

**reduces Alkali Silica Reactions (ASR),  
thus eliminates Silica dusting**

**seals and protects hairline and  
thermal cracks up to a width of 1.4mm**

**chem-crete pavix®** is a unique waterbased, water-repelling and crystal forming product that will provide permanent protection for concrete pavements and structures against water and moisture intrusion and moisture related problems such as freeze/thaw, corrosion caused by chloride ion penetration and alkali/silica reactions.

**chem-crete pavix®** is a unique product that combines a water repelling function with crystalline formation in the pores and voids of concrete. Initially the product reacts with the air to create a water-repellent, but additionally penetrates into the concrete forming crystals in the pore and void structure of the concrete. These crystals are both hygroscopic and hydrophilic meaning they grow by absorbing moisture to fill the voids and then migrate toward the water source, effectively sealing it off. Under dry conditions, the crystals release the moisture and shrink in size to allow the concrete to breathe.

**chem-crete pavix®** will reduce the moisture content of concrete to lessen water and moisture associated damage. A simple application will prolong concrete life and reduce maintenance costs. Application is made to concrete in one single treatment only – by means of low pressure spraying or brushing. The process is non-film forming, maintains the natural look of the concrete, and resists aggressive chemicals such as acids, caustics, jet fuel and oils. A concrete surface treated with **chem-crete pavix®** will also remain cleaner as the process repels dirt and grime.

if it's made of con



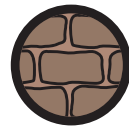
## infrastructure

**chem-crete pavix**<sup>®</sup> will protect steel reinforcing against corrosion due to the ingress of harmful chemicals. Totally safe to use across water. A one application process reducing traffic disruption.



## rail

**chem-crete pavix**<sup>®</sup> applied to viaducts, tunnels and all other rail network structures will reduce the damaging effects of vegetation growth. **chem-crete pavix**<sup>®</sup> will effectively block moisture transmission and limit the ability for vegetation growth to take place. **chem-crete pavix**<sup>®</sup> will greatly reduce the unsightly problem of dirt and grime on these structures.



## heritage

**chem-crete pavix**<sup>®</sup> cures with a thick crystal structure providing more durable protection against wind driven erosion. Once applied **chem-crete pavix**<sup>®</sup> will prevent growth of algae and other vegetation and will ensure that the surfaces remain clean without the harmful effects of mechanical cleaning.

### your proven solution for

bridges

airports

docks

concrete roads and highways

multi-storey car parks

concrete buildings

sea defences

water treatment plants

garage forecourts



## marine

Concrete structures in the marine environment are subject to extremely harsh conditions. Ingress of salt water in sea defence walls, docks and marine piers etc will prematurely erode these structures if not treated. **chem-crete pavix**<sup>®</sup> will permanently protect all concrete structures.

concrete it needs **chem-crete pavix**<sup>®</sup>



**chem-crete pavix®** promises to keep treated concrete reasonably dry, thus eliminates all water and moisture associated problems. It will also seal cracks up to 1.4mm. Therefore, it will prolong the life span of the structure and dramatically reduce maintenance cost.

## the ultimate ‘environmentally friendly’ solution for permanent concrete protection

The characteristics of **chem-crete pavix®** compared to conventional silane treatments

### characteristic

appearance  
 water repellent result  
 vapour permeable result  
 toxicity  
 odour  
 fumes  
 irritant  
 environmental hazards  
 water contaminate  
 flammability  
 explosive with air  
 flashpoint  
 boiling point  
 workplace containment  
 waste hazard  
 stability

### silane

colourless  
 yes  
 yes  
 acute, affecting humans, animals and vegetation  
 fruity, often objectionable  
 yes  
 skin irritating  
 high risk  
 high risk  
 high risk  
 possible  
 39°C  
 150°C  
 yes, dependent on site conditions  
 hazardous  
 hazardous decomposition products (inc. methanol)

### chem-crete pavix®

colourless  
 yes  
 yes  
 none  
 none  
 none  
 non irritant  
 none  
 none  
 none  
 not possible  
 none  
 100°C  
 not needed  
 non hazardous  
 non hazardous

information supplied via research testing by School of Engineering City University London, UK  
 full test report available on website

**for more information**  
[www.chem-crete.com](http://www.chem-crete.com)

**email**  
[info.chem-crete.com](mailto:info.chem-crete.com)

**International Head Office**  
 International Chem-Crete, Inc  
 800 Security Row  
 Richardson  
 Texas 75081  
 U.S.A.  
 t +1 972 671 6477  
 f +1 972 238 0307

**UK Office**  
 International Chem-Crete, Inc  
 5 Craill Close  
 Wokingham  
 Berkshire RG41 2PZ  
 United Kingdom  
 t +44 1189 782 061  
 f +44 1189 782 061

**Slovakia Office**  
 International Chem-Crete, Inc  
 Kopcanská ul. 60  
 908 51 Holíč  
 Slovakia  
 t +421 34 660 2121  
 f +421 34 660 2122



International Chem-Crete Corporation is dedicated to evolving new, environmentally safe products for the construction industry