

BASE-SEAL



Capability Statement

INNOVATION PLAYS A BIG ROLE WITHIN VEC CIVIL ENGINEERING. WE ARE CONTINUOUSLY RESEARCHING INNOVATIVE WAYS TO INCREASE OUR EFFICIENCY AND EFFECTIVENESS. SUCCESSFUL RESULTS INCLUDE VEC HAVING AUSTRALIA'S FIRST HYDRAULIC EXCAVATOR MOUNTED PILE DRIVER, AUSTRALIA'S FIRST NON DESTRUCTIVE BRIDGE LOAD TESTING, OUR SUPER T-BEAMS AND OPEN TOP T-BEAMS. OUR MOST RECENT RESEARCH AND DESIGN PRODUCT IS BASE-SEAL.

FOR MORE INFORMATION, VISIT OUR WEBSITE: WWW.VEC.COM.AU

INNOVATION

BASE-SEAL is a polymer based material used in road building and strengthening applications, this product has been used extensively through the U.S. with outstanding results.

BASE-SEAL International Inc. is a Houston, Texas USA based company that has developed and marketed these products worldwide for the last 26 years. The products are manufactured under secrecy agreements by large national chemical blending plants.

VEC has acquired the exclusive rights to supply these products and have been undertaking trials in Australian conditions for Australian applications. The product has a wide variety of applications, particularly in areas which are subject to water inundation and/or remote areas. This can be achieved through the utilisation of insitu materials onsite, therefore reducing the dependence on imported materials. The pavement sets in a concrete like state however still retains durability so it can handle expansion and retraction due to extreme weather conditions. The moisture content is retained after the treatment and for this reason treated matters are impervious to water inundation. This results in a product with a longer life cycle with reducing maintenance costs. The product can be used to treat both sealed and unsealed roads providing unsurpassed results in both applications.

WHY USE BASE-SEAL?

BASE-SEAL is environmentally friendly:

- Due to reduced maintenance demands, there is a reduction in emissions from plant;
- Because BASE-SEAL is 0% toxic, as it is made out of Sodium Silicate;

- As there are no acids or erosive materials; and
- Because it is non-corrosive and non-flammable.
- BASE-SEAL is cost efficient because:
- There are lower long term maintenance costs;
- Due to the improved durability, labour and plant costs will be reduced;
- Roads with wearing surfaces remain stable and durable for greatly extended periods of time, reducing maintenance costs and preventing repair work;
- It is impervious to water inundation, resulting in a longer life cycle, ultimately reducing maintenance costs;
- Has a wide range of compatible treatment options; and
- Can be combined with lime, soil, cement, fly ash or lime kiln.

BASE-SEAL, ADDITIONAL ADVANTAGES

- It is not subject to special DOT, OSHA or EPA requirements for transport, storage or disposal containers;
- It retains durability, as it can handle expansion and retraction in extreme weather conditions;
- It is easy to use, with no need for complicated procedures and can be applied in common road construction equipment;
- It can help build a more flexible road base in order to increase durability and the life expectancy of the pavement cross sections; and
- It is economical.

