

# ARMOR-SHIELD CSA Series

CALCIUM SULFONATE ALKYD

**Got corrosion?**

Environmental  
Contamination  
/ Acid Rain?

Galvanic  
Corrosion?

Crevice / Under  
Pipe Support  
Corrosion?

**... we've got you covered.**

**WATSON**

COATINGS FOR ENCAPSULATING LEAD, RUST AND OLD COATINGS WITHOUT BLASTING

## A pervasive and costly problem - Has finally met its match

At Watson Coatings, Inc. we've built our business and our reputation on creating **economical coatings** for **optimal corrosion control** without sacrificing the environment. It was this commitment to superior quality and improving environmental standards that led us to develop the ARMOR-SHIELD CSA Series. A family of coatings which includes AS8201, AS8300 and AS8301, **eliminates the need for grit-blasting or containment and minimizes hazardous waste disposal costs and environmental contamination.**

### ARMOR-SHIELD CSA Series - Why It Works So Well

Throughout the 1970's and 1980's Calcium Sulfonate was used extensively in rust proofing and underbody coatings for the automotive industry due to its **unique anticorrosion properties.**

**W**atson Coatings, Inc. has since developed a **proprietary blend** of solvents and resins that provide **superior penetrating power** and **tenacious adhesion... without lifting existing coatings.** A **low VOC Calcium Sulfonate Alkyd coating system, with outstanding performance over existing coatings and un-blasted steel surfaces,** ARMOR-SHIELD CSA Series contains a unique blend of **thixotropic resins** that deliver high build to provide outstanding corrosion protection. These resins **wet out and bind to the substrate, whether it is steel, solidly adhering rust or existing coatings.**

The high affinity of the Calcium Sulfonate for bare metal resists the formation of undercutting. **Excess alkalinity in ARMOR-SHIELD CSA Series (pH = 10.1)** neutralizes any acids that penetrate the coating and **severely inhibits the formation of any corrosion in such an alkaline environment.** ARMOR-SHIELD CSA Series has a **higher affinity for metal than water** and is **not a good conductor of electricity.** Because stray electric currents accelerate corrosion (Galvanic corrosion), modified Calcium Sulfonate Alkyds are **extremely effective in metal joints and seams where stray currents would concentrate.**

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The **Steel Structures Painting Council (SSPC)** tested 73 coatings of nine generic types in various outdoor environments. Modified Calcium Sulfonate Alkyd based coatings proved to be the **best performer on hand-tool cleaned (wire brush) rusted steel**. The **Federal Highway Administration** tested and proved in accelerated Lab tests lasting **6 840 hours**, that the **Calcium Sulfonate technology** out performed all other coatings (**20 to 26 years natural exposure**), without failing. In **South Africa, SANS / ASTM B117 Lab tests** were completed in 2013 that also provided documented evidence of this technology's **superior performance to prevent corrosion**.



## APPLICATION OF TRADITIONAL COATINGS

## VS. OVERCOATING WITH ARMOR-SHIELD CSA SERIES

### High project costs and over the service life of the system:

- Containment of blast and waste as well as monitoring employee health,
- Costly disposal of hazardous blast waste,
- Field application conditions don't allow for optimal application of traditional coating systems.
- When re-coating becomes necessary, traditionally used coatings must be mechanically removed and multiple coats must be applied at high costs.

### Lower project costs and over the service life of the system:

- No blasting or containment,
- No hazardous blast waste disposal,
- Surface tolerant over rust and existing coatings,
- Provides an impermeable barrier, remains firm and provides years of extended service life (> 20 years).
- When re-coating becomes necessary, only wipe down with Mineral Turpentine to remove the weathered surface of the coating, then apply a one step overcoat by brush, roller, pump or paint mitt.

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