

# INNOVATIONS

## Today's Best Ideas in Bridge Repair Technology

### Europe's #1 Bridge Repair Product Now Made in the USA



Germany's highest steel rail bridge, The Müngsten Bridge, was renovated using MM1018. MM1018 is manufactured in the US by Stronghold Coating Systems.

**MM1018**, used on more than 1000 projects– including Germany's highest railway bridge, is now manufactured in Franklin, Ohio, USA by Stronghold Coating Systems, a veteran-owned company with more than 50 years experience in product development and thermal spray technology.

MM1018 is a load-bearing polymeric resin that has been used for steel bridge repair, as well as new construction, for more than a decade. It provides 100% force fit gap compensation, even when there are wide gaps between steel structures.

MM1018 has high compressive and shear strength, exceptional vibration damping and high dimensional stability. It resists weathering, aging, petroleum products, saltwater and acids over very long periods. It cures quickly – just 24 hours – and is sold by Stronghold as a putty or injectable liquid.

### New Manufacturing Facility

Stronghold Coating Systems, a leading provider of custom polymeric products and process development for Thermal Spray coating applications, announces the opening of a new 5000 sq. ft. facility, effectively doubling the company's manufacturing capacity. The primary purpose of this expansion is the production of MM 1018 for bridge repair and new bridge construction.

The new facility, located at 2 Shotwell Drive, Franklin, Ohio 45005, will house a variety of advanced mixing, blending and packaging machinery. This is the first time this important load-bearing repair product, widely used throughout Europe, has been manufactured in the USA.



Products are manufactured in Franklin Ohio, USA by Stronghold Coating Systems, a veteran-owned company.

# Dichtol WF49 Highly Effective for Ultra-High pH Applications

The **WF49 on-site resin repair system** is now available throughout the US exclusively from Stronghold Coating Systems. WF49 seals pores up to 0.1 mm and restores the pressure tightness of castings, even complex structures. Penetration time for 5-10 mm wall thickness is 15 minutes; for 10-15 mm, it is 20 minutes. WF49 also provides vibration dampening.



Rapid surface drying allows objects to be ready for use in approximately 6 minutes. Weatherproof and corrosion resistant, it withstands a pH of 12-14 following a full (7-day) cure and resists heat to 248°F continuous or 392°F short term. WF49 is applied by brush, spray or injection. It is ideal for printing rolls, pumps, pipes, and process equipment of all types.



# Dichtol WF1532 Impregnates Alloy Micropores and Cracks 0 to 1/10mm Without Vacuum or Pressure

**WF1532** capillary sealer from Stronghold is used worldwide for on-site repair, and as a sealant to prevent premature failure of plasma, arc spray and HVOF coatings. It is widely used by foundries, machine tool makers, and for a broad range of specialty applications, including the protection of aircraft carrier decks.



WF1532 is applicable by dip, brush or spray, and cures at ambient in approximately one hour per mm wall thickness. Pressure rating at full cure is approximately 600 bar, temperature resistance is 482°F continuous.

## Stronghold Science



### Stronghold Provides Coatings Development and Quality Assurance Services for Bridge, Pipeline and Other Infrastructural Applications

- Advanced coating development to solve issues with corrosion, porosity, release properties, and cost
- Material, equipment and process development
- Training in the application of advanced coating systems
- Starter formulations and existing formulations enhancements
- Prototype development and verification
- Compositional and physical properties testing
- Forensic evaluations

**STRONGHOLD** Coating Systems

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