

# 752



## COLD GALVANIZING COMPOUND

### Description

Chesterton® 752 Cold Galvanizing Compound functions both as a zinc rich primer or final coating for ferrous metals and their welds exposed to atmospheric or corrosive conditions.

The product deposits a 95% pure zinc coating that bonds to metal protecting it against corrosion both physically and by galvanic action. After fabrication or construction, it forms an all purpose protective coating. After wear, accidents, welding or maintenance work on galvanized metal, it provides a “like-new” touch-up coating to restore the damaged galvanized protective coating.

Chesterton 752 Cold Galvanizing Compound provides instant galvanizing. Unlike hot dip galvanizing, the product can be sprayed on to provide a convenient, fast drying protective coating.

### Composition

Chesterton 752 Cold Galvanizing Compound contains 95% zinc in the dried film. The ultra-fine particles of pure zinc that make up the product provide three mechanisms of corrosion protection:

#### 1. Barrier Protection

Because the product has such a high solids content of ultra-fine zinc particles it forms an extremely tight non-porous barrier against corrosion.

Typical Physical Properties	
Color	Gray
Zinc Content (Dried Film)	95%
Density	2,9 kg/l (24 lbs/gal)
Coverage (at 2-3 mil) (0,05-0,08 mm) (270-400 sq ft/gal)	6,6-9,8 m <sup>2</sup> /l
Maximum Service Temperature	Up to 149°C (300°F)
Dry Time at 21°C (70°F) Recoat: 8 hours	Touch: 15 minutes
Recommended Application Temperature	10-38°C (50-100°F)
Impact Resistance (ASTM D 2794) Extrusion Intrusion	0,46 m-kg (40 in-lb) >0,92 m-kg (>80 in-lb)
Corrosion Protection (ASTM B 117)	2500 hours
Diluent	Xylol

#### 2. Galvanic Protection

When two dissimilar metals are connected in an electrolyte, the metal with the lower potential becomes the anode and will preferentially corrode. This is the principle behind a zinc based coating. Zinc is a more anodic metal than steel and will preferentially corrode, thereby providing a sacrificial layer and leaving the steel below it protected against oxide formation.

#### 3. Zinc Oxide Protection

Scrapes in the coating are self-healing as the exposed zinc forms more zinc oxide preventing rust from creeping under areas still coated.

The product is formulated with a tough resin binder which provides excellent adhesion to properly prepared base metals. Use Chesterton 752 Cold Galvanizing Compound as a quick, cost effective way to cold galvanize parts and finished products.

### Features

- 95% pure zinc in dried film.
- Ultra-fine particle size.
- Flexible.
- No heat required.
- Fast drying.
- Self healing.
- One part system.
- 3 way corrosion protection.
- Conforms to MIL-P-46105, MIL-P-21035 and MIL-P-26915.
- Authorized by the USDA.

### Applications

Use in maintenance and construction to restore damaged galvanized metal and provide protection for all iron and steel surfaces, structures or equipment such as air conditioning units, agricultural machinery, automotive bodies, fences, marine equipment, metal floors and roofs, mining equipment and oil rigs, off shore drilling structures, ornamental iron works, pipe lines, railroad equipment, structural steel tanks, transmission towers, underground pipe lines, welds, ducts, marine equipment, decks etc.

### **Directions**

Surface must be free from dirt, oil, grease, moisture, rust, lint etc. For best results, sandblasting is recommended. However, in many cases, power tool cleaning or hand tool cleaning will be sufficient.

Application may be made either by brush, spray or roller. When brushing, care should be taken not to brush material out too thin. Doing so will result in low film build and brushmarks. Stir thoroughly before using.

Never thin with more than one pint solvent to one gallon of paint except in roller applications where this figure may be increased to 1 1/2 pints per gallon. Use only xylol. For clean up, any aromatic hydrocarbon may be used.

### **Safety**

Before using this product, please refer to the Material Safety Data Sheet (MSDS) or the appropriate safety data sheet for your area.

Technical Data reflects results of laboratory tests and is intended to indicate general characteristics only. A.W. CHESTERTON COMPANY DISCLAIMS ALL WARRANTIES EXPRESSED, OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR USE. LIABILITY, IF ANY, IS LIMITED TO PRODUCT REPLACEMENT ONLY.



DISTRIBUTED BY:

860 Salem Street  
Groveland, Massachusetts 01834 USA  
Telephone: (781) 438-7000 • Fax: (978) 469-6528  
[www.chesterton.com](http://www.chesterton.com)

© 2014 A.W. Chesterton Company.  
® Registered trademark owned and licensed by  
A.W. Chesterton Company in USA and other countries.

FORM NO. 074640

REV. 12/14