

# **BONDIT™ C-52**

## **Bonding Agent, Primer and Adhesive**

### **Primer & Bonding agent for Coatings Sealants Adhesives**

A very broad based adhesion promoter and primer for coatings, sealants and adhesives: alkyd, acrylic, epoxy, polyester, urethane, and polysulfide coatings, sealants, and adhesives.

Promotes bonding to polystyrene, ABS, polyimide, polyamide, PBT, polyamide-imide, polycarbonate, PPS, polysulfone, PVC, polyvinylbutyral, melamine, phenolic, polyolefin and many other thermoplastics, thermosets, and siliceous surfaces like glass and ceramic, as well as most metals.

### **Easy application**

A one-part, one coat, thin film, rapid ambient or thermal cure primer. Offers a long three-week work-life on cured prime coat. Dip, spray, brush, and roll application.

### **Harsh environments**

Marine,  
Industrial,  
Downhole oil,  
Mining,  
Automotive,  
Medical.





**BONDIT™ C-52**

## Description

**BONDIT™** C-52 is an all-around general purpose, one-part primer, adhesion promoter and adhesive with moderate chemical resistance for metals, glass & ceramics, thermoplastics and thermoset polymers. **BONDIT™** C-52 offers a wide range of capabilities for promoting single coat chemical bonding between coatings, sealants and adhesives of very diverse properties to mineral and polymer substrates. It is especially useful as a primer and adhesion promoter for injection molding to metal and glass with polyethylene, polypropylene and polyolefins in general, PPS, PVC, PBT, ABS, polysulfone, polystyrene, polyamide (nylon 6 and 66), polyamide-imide, polyimide, polyvinylbutyral, melamine, polycarbonate, polyester, polyether, phenolic, and epoxy, with molding temperatures up to 328°C/622°F.

## Curing Guide

A wide range of curing regimes may be employed. Typical cure is ambient 30 to 60 minutes, or 75°C for 15 minutes, or 150°C (302°F) for 5 minutes. May be brushed, sprayed, or poured. Wetting qualities are superior, even on non-polar surfaces.

## Storage

The usable shelf life of unopened containers of **BONDIT™** C-52 resin is one year, and should be stored in cool, dry place. When not in use, containers should be kept tightly closed after purging with dry nitrogen (optional). **BONDIT™** C-52 is available in syringes, cans, bulk container, and custom packaging.

## Typical Properties

<b>Property</b>	<b>Value</b>
Viscosity @ 25°C, ASTM D445	4.5-8.5 cps
Specific gravity, ASTM D1298	1.018-1.038
Color	Clear straw color

## Application Notes

**BONDIT™** C-52 is very cost effective in promoting excellent adhesion with polar and non-polar coatings and substrates. Suitable for acrylic, alkyd, epoxy, urethane, and polysulfide coatings and sealants for exterior and marine environments. Good for roll coating, and hotmelt automotive applications. Diverse adhesive combinations of dissimilar materials with significant environmental resistance are obtained when used with other **BONDIT™** products.