

# **TECHNICAL INFORMATION**

## **CHEMENCE ANASEAL® HC90HTV**

### **Thermal Curing Impregnation Sealant**

#### **ANASEAL HC90HTV**

is a high performance, water washable impregnation sealant for porous materials, which has been especially formulated to be cured at temperature of 90° C,(194°F) Cure can be accomplished by submersion in heated water or oil, or with an oven.

#### **ANASEAL HC90HTV**

is suitable for use in all currently available impregnation equipment for the sealing of porous metal substrates. **HC90HTV** is suitable for use with all common types of impregnation process, including simple wet vacuum, dry vacuum, wet or dry vacuum/pressure, or pressure injection.

#### **ANASEAL HC90HTV**

forms a crosslinked thermoset polymer when cured. No detergents, soaps or other additives which could detract from the quality and integrity of the polymerized sealant are used. The critical formula results in a sealant with resistance to solvents and to thermal degradation, yet is easily washable in plain water.

#### **I. GENERAL PROPERTIES**

The following data is not intended to be used for specifications, but are typical properties based on laboratory results. Chemence technical personnel can help determine actual specification data.

##### **Uncured Properties:**

Composition/Type: . . . . . methacrylate monomers  
Appearance/Color: . . . . . amber liquid  
Viscosity @ 25°C No.1 Zahn Cup: . . . . . 120-150sec  
Flash Point: . . . . . >90° F  
Shelf Life: . . . . . >6 months  
Specific Gravity: . . . . . 1.10  
Vapor Pressure: . . . . . Low

#### **II. SOLVENT RESISTANCE**

##### **ANASEAL HC90HTV**

is resistant to almost all common solvents, including hydrocarbon solvents (oils, gasoline), chlorinated and fluorinated solvents, mild caustics and acid solutions, and water. Specific data concerning resistance to other solvents is available upon request.

#### **III. CURING RATES AND METHODS**

##### **ANASEAL HC90HTV**

cures when the temperature of the sealant within the part porosity reaches 90° C for a minimum of three minutes. Special initiators blended into the sealant cause free radical polymerization once sealant temperature reaches specified cure temperatures. Thermal conductivity of the parts being impregnated and the recovery rate of the curing medium are factors used to calculate actual process times. The typical method for curing is submersion of impregnated parts in heated water until cure temperature is sustained for five minutes or more.

#### **IV. STORAGE**

##### **ANASEAL HC90HTV**

is easy to store and will exhibit long shelf life under proper storage conditions. The sealant should be stored in its original container and away from direct sunlight or other sources of UV light. Storage temperatures should be maintained below 27° C (80° F). HC90HTV is supplied uncatalyzed.

HC90HTV Catalyst should be mixed with HC90HTV sealant at the concentration recommended by your Chemence Technical Representative.

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**TDSHC90HTV**