

**CUREZOL® 2PHZ-PW** Curing Agent**DESCRIPTION**

Curezol\* 2PHZ-PW is a substituted imidazole that can be used as an epoxy curing agent or as an accelerator for dicyandiamide or anhydride curing agents in a wide variety of applications including electric and electronic parts, paints, adhesives, and construction composite materials.

**ADVANTAGES**

- Starts to react at high temperatures in 1K systems
- Long pot life
- Effective for phenolic accelerators

**APPLICATIONS**

- Casting, potting and encapsulation of electronic devices
- One-pack structural adhesives for industrial, automotive and aerospace uses
- Composites

**SHELF LIFE**

30 months from the date of manufacture in the original sealed container at ambient temperature. Store away from excessive heat and humidity in tightly closed containers.

**STORAGE AND HANDLING**

Refer to the Safety Data Sheet for Curezol 2PHZ-PW curing agent.

**TYPICAL USE LEVEL**

5 to 10 phr

**TYPICAL PROPERTIES**

<b>Appearance</b>	Fine powder
<b>Color</b>	Light pink
<b>Molecular Weight</b>	204
<b>Melting Point (°C)</b>	230
<b>Solubility in Liquid Epoxy Resin</b>	Poor at r.t.
<b>Recommended Use Level<sup>1</sup> (PHR)</b>	5-10

**REACTIVITY AND THERMAL PROPERTIES**

<b>Moderate Reactivity Temperature Range<sup>1</sup> (°C)</b>	145-155
<b>Higher Reactivity Temperature Range<sup>1</sup> (°C)</b>	155-175
<b>Latency @ 25°C<sup>1</sup> (days)</b>	100-150
<b>Gel Time @ 150°C<sup>1,2</sup> (sec)</b>	400-550
<b>Typical Cure Schedule<sup>1</sup></b>	2hr @ 100°C + 4hr @ 150°C
<b>Glass Transition Temperature<sup>1</sup> (°C)</b>	190-220

## Footnotes:

(1) With bisphenol-A based liquid epoxy resin (EEW=190)

(2) Time required for 200g mass to gel

\*Curezol is a registered trademark of Shikoku Chemical Corporation. Evonik distributes Curezol products in the United States.

Epoxy Curing Agents and Modifiers

# CUREZOL® 2PHZ-PW Curing Agent

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