**Blocked Aliphatic Polyisocyanate Based On Hexamethylene Diisocyanate**



**Description**

A blocked isocyanate crosslinker is a molecule where an isocyanate group, which is highly reactive, has been temporarily "blocked" by a blocking agent. This blocking agent makes the isocyanate stable and non-reactive at room temperature, but it can be released upon heating, allowing the isocyanate to react and crosslink with other molecules. The blocking agent prevents premature reaction of the isocyanate groups during storage. The release of the blocking agent at a specific temperature allows for precise control of the curing process.

**Product family:**

Isocyanate Monomers

**Chemical family:**

Blocked Isocyanate

Aliphatic Isocyanate

Hexamethylene Diisocyanate

**Product Type:**

Crosslinker of Polyurethane Resin

**Benefits**

Crosslinking with blocked isocyanates can lead to improved durability, adhesion, chemical resistance, and other desirable properties in the final product.

* Good hardness
* Good gloss
* Good flexibility and toughness
* Good weathering properties

**Applications**

Blocked HDI isocyanates are used in formulation of stoving coatings for coil and metal cans industry. It is used as a hardener of polyester and acrylic resins with excellent corrosion resistance and superior outdoor durability. Blocked isocyanates are used in both solvent-based and water-based coatings to improve their durability, adhesion, and chemical resistance.

[Technical Data Sheet](https://crosslinkers.evonik.com/en/product/PR_52001112?name=VESTANAT-IPDI" \t "_self)