

PRODUCT DESCRIPTION

MYCOAT 2628 resin is an imino type methylated and butylated mixed ether type of supplied in iso-propyl glycol and designed for water based coatings. MYCOAT 2628 does not require a strong acid catalyst for fast cure response. Like other benzoguanamine resins, MYCOAT 2628 resin imparts excellent adhesion and chemical resistance to the coating, MYCOAT 2628 resin is suitable for a wide range of general industrial heat cure finishes, providing high detergent and chemical resistance properties.

Because of the limited light resistance properties of benzoguanamine, MYCOAT 2628 is not suitable for exterior applications.

BENEFITS

- Lower free formaldehyde
- Excellent compatibility with resins
- Fast low temperature cure response
- High detergent and chemical resistance
- Good balance of hardness and flexibility

APPLICATION AREAS

- General industrial coating for primer
- Water based external can coatings

PHYSICAL PROPERTIES

| | | |
|---------------------|---|--|
| Appearance | Clear Liquid | Visual |
| Non-volatile by wt. | 78-82 | Pan, 180 min/105°C |
| Viscosity, 25°C | X-Z2 | Gardner Holdtzt Method BS-EN-1243-2011 ISO 4630-2 |
| Free formaldehyde | < 0.45% | |
| Color, Gardner | <= 1 | |
| Solvent | iso-propyl glycol (ethylene glycol mono isopropyl ether) | |

SOLUBILITY

| | |
|------------------------|-----------|
| Alcohols | Complete |
| Esters | Complete |
| Ketones | Complete |
| Aromatic hydrocarbons | Complete |
| Aliphatic hydrocarbons | Partial |
| Water | Insoluble |

COMPATIBILITY

| | |
|------------------|-----------|
| Acrylic resins | Very good |
| Alkyd resins | Very good |
| Epoxy resins | Very good |
| Polyester resins | Very good |

BACKBONE POLYMER SELECTION

MYCOAT 2628 resin is a very effective crosslinking agent for backbone polymers containing hydroxyl, carboxyl or amide functional groups such as epoxy, alkyd/polyester or acrylic resins.

CATALYSIS

MYCOAT 2628 resin may not require the addition of an acid catalyst to the formulation to obtain effective cure. In many instances, the acidity of the backbone polymer in the formulation is sufficient to catalyze the reaction under normal baking conditions (15 - 20 minutes at 120 - 150°C). If catalyst addition is required, then 0.5 - 1.0% of CYCAT® 296-9 catalyst based on total resin solids is recommended.

FORMULATION STABILITY

MYCOAT 2628 resin is insoluble in water. Due to its hydrophobic nature, MYCOAT -2628 has to be dissolved initially in the organic phase of the water reducible backbone polymers.

STORAGE STABILITY

MYCOAT 2628 resin has a shelf life of 1 year from the date of manufacture when stored at temperatures between 5°C and 30°C packed in unopened original containers. MYCOAT 2628 resin must be kept indoors and avoided the direct sunlight exposure.

Although lower temperatures are not detrimental to stability, its viscosity will increase, possibly making the resin difficult to pump or pour. The viscosity will reduce again on warming, but care should be taken to avoid excessive local heat as this can cause an irreversible increase in viscosity.