

## Preliminary Technical Data Sheet

Most recent revision date: February 2019

### EPI-REZ™ Resin 7723-W-53

#### Product Description

EPI-REZ™ Resin 7723-W-53 is a solvent-free solid epoxy resin dispersion in water with a solid content of approx. 53%. This product can be used for very low VOC (Volatile Organic Compound) paint and flooring formulations.

#### Application Areas/Suggested Uses

EPI-REZ™ Resin 7723-W-53 is designed for use in waterborne, two-package coatings on various metal substrates and concrete. It can replace standard type-1 dispersions when a formulation with extremely low VOC is needed. In combination with a suitable curing agent and by optimizing the ratio of curing agent and EPI-REZ™ Resin 7723-W-53 a broad application window can be covered while maintaining a high level of performance.

#### Benefits

- Solvent-free resin dispersion
- Can be used for solvent-free formulations
- Compatible with various co-solvents and curing agents
- Provides
  - Excellent adhesion on various substrates
  - High corrosion resistance
  - Excellent humidity resistance
  - Easiness of grinding
  - Good shear stability

#### Preliminary Sales Specifications

Property	Unit	Value	Test Method
Epoxy group content			
solids base	mmol/kg	1865– 2165	ASTM D1652
Viscosity at 25°C*	mPa·s	300 – 5000	ASTM D2196
Solids	% m/m	52.0 – 55.0	ASTM D1259
Particle size CI, Dv (vol mean)	µm	1.0 max	SRC-1

\*Brookfield, spindle 4 at 20 rpm

## Typical Properties

Property	Unit	Value	Test Method/Standard
Epoxy equivalent weight			
solids base	g/eq*	462 - 536	ASTM D1652
as supplied	g/eq*	864 - 1002	ASTM D1652
Density	kg/l	1.08	ASTM D4052
Flash Point, Setaflash	°C	> 100	ASTM D93
Appearance		Opaque white liquid	

\* Number of grams of resin containing 1 equivalent of epoxide (Weight per equivalent, WPE, is an alternative term)

## Safety, Storage & Handling

Please refer to the MSDS for the most current Safety and Handling information.

EPI-REZ™ Resin 7723-W-53 should be stored in tightly sealed containers in a dry location at temperatures between 10 and 38°C. Under these conditions the shelf life should be a minimum of one year from date of certification. Elevated temperatures or freezing conditions will accelerate particle settling, which will require re-dispersion with moderate agitation. Do not allow the product to freeze. To avoid skinning or surface drying, do not leave the product uncovered for extended period of time.

It is recommended to stir up the product before use.

## Form Number

EPI-REZ™ Resin 7723-W-53