

# Enviroset 60EX FNB Resin

380509

## Product Features

Enviroset 60EX Furan Nobake Resin is a low nitrogen, low water furan resin that offers a number of features that set it apart from conventional furan resins on the market. The following product features characterize this binder:

- Low Water, low Nitrogen
- Non-reportable formaldehyde
- Very low viscosity
- High tensile strengths
- High FA resin

## Product Description

Enviroset 60EX is a thermosetting furan resin that will react in the presence of a strong acid catalyst, at ambient temperatures, to form a cured binder. It is suitable for use in the production of cores or molds, and can be used with all types of metal. Typically the amount of Enviroset 60EX resin applied to the sand will range between 0.8% to 1.2% resin, based on the weight of the sand. The quantity of acid used in the sand mix is dependent upon the type and strength of the acid, but normally ranges between 20% - 50% based on the weight of the Enviroset 60EX resin.

Recommended practice when using Enviroset resins is to start with a clean, washed and dried silica sand. Reclaimed sands are also widely used with this type of product. Mechanically reclaimed sand that is low in fines and residual binder (Loss on Ignition) is preferred. In continuous or batch-type mixers, the acid should be the first component added to the sand, with the resin added after the acid has been dispersed. Caution should be exercised to prevent the liquid resin and acid components from coming into direct contact with one another since the resulting reaction can be very exothermic.

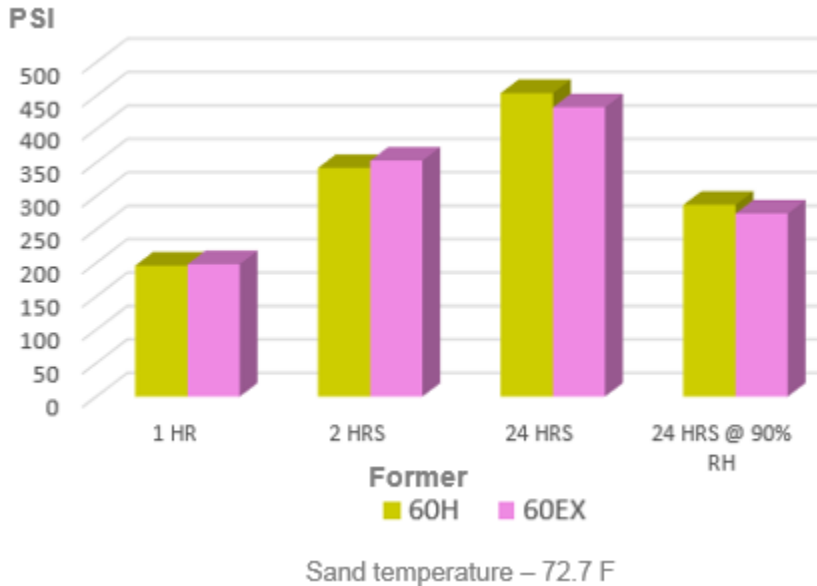
## Typical Physical Properties

Typical Properties – Enviroset 60EX

Viscosity, cps	10-40
% Water	5.9 max
% Nitrogen	0.4
% Free formaldehyde	<0.1
% FA	76

## Performance Characteristics

Comparative Tensile Strength – Sand W530, 1% Resin BOS, Cat 30% BOR – TW30



*\*Data based on experimental lab tests*

*\* Tensile strength will vary due to the many factors known to affect binder performance, e.g. sand quality, sand temperature, mixing efficiency, etc.*

## Storage Guidelines

Recommended storage temperature is between 60 - 90 ° F. At lower temperatures, viscosity will increase, making pumping and mixing more difficult. At higher temperatures, shelf life can be adversely affected. Drum storage should be in a dry area, out of direct sunlight. Partially used drums should be tightly closed, to prevent contamination.

## Safe Handling

Chemically resistant gloves and eye protection should be used when handling or using chemical binders. Material Safety Data Sheets are available for all products. Drum labels also contain handling information. Furan resins will react in a violent exothermic reaction with the acid catalysts or other acids. Do not mix furan resin with any acid except on sand during use.

## Technical Service

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