



# KISEPO 20HS

High Strength (Increased strength class) Epoxy Binder and Injection Resin

## **DESCRIPTION**

Designed for exceptional high-bond and increased strength class, KisEpo 20HS is suitable for bonding and repairing a wide range of substrates and structures.

As with KisEpo 20, its medium to low viscosity will allow maximum penetration into gap widths of 0.25mm and above as well as in area with moderate dampness.

## **RECOMMENDED USE**

- Beams and Columns
- Bolt grouting
- Concrete repair
- Hollow repair
- Injections of cracks in dry or damp concrete
- Joint reinstatement
- Pre-cast members

## **ADVANTAGES**

- Aggregate extendable
- Excellent adhesion
- Fast cure
- High-strength
- Increased working time
- Low viscosity
- Moisture insensitive
- Non-shirk capability
- Non-toxic when cured, can be used in potable water tank
- Restores structural integrity
- Simple and user friendly

## **PACKAGING**

KISEPO 20HS is supplied in 6kg/set

Part A = 4.2 kg, Part B = 1.8 kg

## **APPLICATION GUIDELINES**

### a) Surface Preparation

As with any epoxy resin system, surface preparation is critical. Concrete surfaces or cracked sidewalls to which this product is to be applied should be cleaned by compressed air or water jet to ensure a superior bond.

If both sides of a substrate are accessible, they should both be sealed with KISEPO 10 high strength epoxy putty before injecting KISEPO 20HS to ensure complete crack filling.



#### b) Mixing

Mix using clean containers, pour KISEPO 20HS into a container of mix ratio of 2 parts of Part A (by volume) to 1 part of Part B (by volume). Mix for 2-3 minutes constantly using low speed paddle mixer until the uniform colour is achieved. All mixture must be used within 30-45 minutes.

#### c) Application

Inject the mixed KISEPO 20HS resin using KST Injector or other types of KST Pump.

Start resin injection from the lowest part of the crack. Go on to the next injection port when KISEPO 20HS is seen appearing from the upper port. Repeat the process until the crack is filled with resin.

Upon completion of repair to a crack line, allow mighty Injector to maintain its maximum pressure (2.5 bar to 4 bar) at its injection point.

During injection, have KISTAL PLUG ready to seal any possible leaks from around the ports or crack or other parts of the concrete.

Once the resin has set, preferably after 24 hours, remove the injectors and restore the surface by mechanical means.

#### d) Cleaning

All tools and equipment should be cleaned immediately after use with suitable solvent.

### **LIMITATION**

KISEPO 20HS must be used within the recommended pot life.

### **STORAGE**

KISEPO 20HS should be stored in tightly sealed original packing at room temperature up to 12 months from date of manufacturing.

### **TECHNICAL PROPERTIES**

KISEPO 20HS			
All at 25°C	Part (A)	Part (B)	Mixture
Colour	Clear	Yellow	Yellow
Density	1.10 g/cm <sup>3</sup>	1.01/cm <sup>3</sup>	kg/ litre
Mix ratio	10 Part (by weight)	4.6 Part (by weight)	By weight
Minimum curing temperature			15°C
7 days compressive strength			90N/mm <sup>2</sup>
7 days tensile strength			54N/mm <sup>2</sup>
7 days elongation at breaks			2.8%
Temperature			25°C
Viscosity			300-450
Pot life (100gm sample)			90~180min
Final cure			7 days
Maximum exotherm			64°C