

JSW ROAD INSTA CURE

CEMENTITIOUS FLOWABLE NON-SHRINK RAPID HARDENING GROUT FOR ROAD APPLICATION



DESCRIPTION

JSW Road Insta Cure is a cementitious flowable non shrink, rapid hardening mix for precision application like repair Road cracks/Structures instantly. JSW Road Insta Cure is the blending of cement, cementitious materials, along with graded fillers and polymers. JSW Road Insta Cure is engineered designed for precision repair grout where it is essential to withstand crack free road repairs with instant cure fast setting and rapid hardening.

FEATURES AND ADVANTAGES

- Easy to use - just add water on site, ready to use and reduce time for repair.
- Very fast setting.
- Very rapid strength generation and hardening.
- Contains proper blend of additive and polymers for significantly improved performance.
- Non Shrink repair flow able material with controlled positive expansion, just to ensure complete bonding with concrete and filled the cracks and joints.
- Highly Durable
- Good Mechanical Properties like High Compressive strength, Flexural and Tensile strength.
- Self compaction – It is self-compactable.

AREAS OF APPLICATION

- Concrete roads
- Precast concrete repair
- RCC concrete slab/beam
- Airport concrete repair

METHOD OF APPLICATION

Surface Preparation:

- Concrete road Repair, major cracks open with jack hammer and minor cracks open with cutting machine blade.
- Remove of all loose materials by blowing air & ensure all foreign loose particles are not there in gap or groove.
- Ensure that the minimum of the depth to be filled is 50 mm
- After removing all loose concrete particles use JSW SBR Ultra/Ultra Plus as a bonding agent. Apply the latex using brush before
- pouring the JSW Road Insta Cure mix. Allow to get it tacky condition may be 10 mins to 15 mins.
- The mixed flow able materials now pour to gap and finish with trowel.

Mixing and Application:

- JSW Road Insta Cure should be mixed in a high shear grout/paddle mixer for optimum dispersion and workability.
- To get flow able grout like consistency the water required as per advised water-powder ratio in the technical input.
- The curing should be done atleast three days consecutively. Initial first day curing is not required, From second day the curing should to done. The mixing water quantity approximately 3.375 litre to 3.625 litres for flowable consistency.
- Ensure the mixing water is below 25°C use ice if necessary, especially if the ambient temperature is above 40°C.
- Add approximately 1/4th of measured water to the mixer pot/container and then slowly add some quantity of powder and mixed thoroughly to get pourable consistency then add some quantity of powder and mix to get flowability, require some water quantity is added from the measured water quantity in the similar way complete the mixing taking full measure quantity water and powder to get grouting like flowable consistency. Do not add more than the maximum recommended water quantity.
- Pour the mixed JSW Road Insta cure via a hopper from one side of Concrete road cracks only to avoid air entrainment. Pot life of JSW Road Insta Cure mix is 10 mins. so the application to be done of JSW Road Insta Cure mix within 2-3 mins. Pour the material and finished the surface to be finished with trowel.
- Cover the exposed area of JSW Road Insta Cure mix by wet burlap (Jute Bag) to prevent cracks.

Curing

- Curing is required for JSW Road Insta Cure after 24 hrs.
- Good Curing practice for all exposed surfaces, Curing using by water ponding, spray misting or Covering with wet sheeting for a minimum of 3 days

PRECAUTIONS & NOTE

- Always add powder to water & Do not add excess water than recommended.
- Ensure that the Bond coat of JSW SBR Ultra/Ultra Plus applied before pouring JSW Road Insta Cure mix into the concrete road open cracks.

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TECHNICAL DATA

PARAMETERS	RESULTS
Appearance	Free Flowing Powder
Color	Cementitious Light Grey
Water/ Powder Ratio	0.135 – 0.145
Flow on Table @ 30°C in mm	Min. 260 mm
Fresh Wet Density, Kg/m ³	2200 – 2400
Initial Setting Time, Minutes	> 10
Final Setting Time, Minutes	< 180
Pot Life @ 30°C	10 – 15 minutes

Compressive Strength, Mpa (IS 4031 Part 6)

2 Hrs	Minimum 20
3 Hrs	Minimum 30
12 Hrs.	Minimum 40
24 Hrs.	Minimum 45
3 Days	Minimum 60
7 Days	Minimum 70
28 Days	Minimum 80
Expansion	Nil
Mohs Hardness	8.5 – 9.0

COVERAGE

- Minimum Yield 11 ltr per 25 kg bag
- *Coverage will vary depending on crack size and substrate smoothness and evenness

PACK SIZE

- 25 kg Bag

BEST BEFORE

- 6 months from the date of manufacturing if stored in unopened original packing,
- under shade in dry and moisture free conditions.

SAFETY PRECAUTIONS

Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. Limited to professional use only. For more details please refer the relevant Material Safety Data Sheet, available on request.

Disclaimer - JSW construction chemical dry mix products are guaranteed against material and manufacturing defects. The product is sold as per standard terms and conditions of sales, copies which may be obtained on request. JSW's endeavor is to ensure correct and accurate information on product performance and recommended specifications as mentioned in literature, and still may have to abstain from circumstantial deviations which are beyond control due to human intervention, atmospheric conditions or natural calamities which may not be in accordance with any advice, specification, recommendation or information given by it.