

MIXFLOW 400LSR®

Controlled concrete surface retarder for forms and moulds

Mixflow 400LSR is a moderate viscosity, liquid retarder used for achieving an exposed aggregate finish on concrete by retarding the setting of cement paste in the surface matrix of formed concrete and then removing it. The surface retarder is applied on the formwork or mould to effect controlled retardation of the surface of fresh concrete in contact with the treated forms/moulds.

Advantages

- Easy to use, controlled and consistent results
- Neutral pH so does not corrode or damage the concrete or form work /mould.
- Cleans up with soap and water
- Exposes aggregate on floor slabs, sidewalks, tilt-up and precast panels or any normal horizontal concrete
- Produces roughened bonding surfaces for subsequent concrete toppings
- Roughens horizontal surfaces for construction joints in power plants, dams and other civil engineering projects.

Mixflow 400LSR® is available in 25 litre carboys and 205 litre plastic lined drums.

Typical depth of retardation: 8mm@ 10-12 m² / litre.

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|--------------|--------------|
| Appearance : | Green liquid |
| pH : | ~ 7 |

Use Mixflow 400LSR® as supplied after stirring thoroughly. Ensure that the surface of formwork is clean and free from oil, grease, mould releasing agents, water, cement or other loosely adhering materials.

Apply Mixflow 400LSR® at the recommended rate of application 10-12 m² / litre for a depth of retardation of up to 8 mm for higher retardation the rate of application can be increased by brush on the inner surfaces of the formwork at least an hour before the placing of concrete.

Protect the applied surface from rain or other damage. Avoid scouring of the treated form surfaces while using poker vibrators, and minimise the flow of concrete across the treated forms while placing and vibrating concrete. Strike off formwork within 48 hours of placing concrete and then immediately hose down the treated surface with medium water pressure to wash away the unset cement paste in the surface matrix. Brush away all the loosely adhering materials. Clean the form surfaces of adhering cement paste immediately after striking off. The debris thus collected should be washed away as cement paste can later set hard making it difficult to remove. The period of surface retardation will be reduced in hot weather and also if air voids are present between the form and concrete face.

The period and the depth of retardation can be increased by increasing the rate of application of Mixflow 400LSR®.

Note:

- a. It is recommended that field trials be conducted at different coverage rates on the design concrete mix with site raw materials, to determine the optimum depths of penetration.
- b. With high alumina and RHC cements the form work /mould should be removed in less than 6 hours.

Mixflow 400LSR® can be stored for 12 months if stored at temperatures above 10°C in tightly sealed original drums.

Health: Mixflow 400LSR® is non toxic but can cause irritation to persons with sensitive skin if exposed.

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Safety: Wear eye protection and gloves while handling the product. Wash thoroughly after handling. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each PyChem product

Fire: Not flammable. For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

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Technical information given in this datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambiance. Climatic disparity in temperature, humidity, etc. and porosity of substrate may impinge on the values.

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