



# DARMA LATEX

Bonding and Repairing admixture



## OVERVIEW

- Darma latex is a multipurpose chemical that is used to join individual members of a structure without mechanical fasteners. Darma Latex is often used in different repair applications by using sand-cement repair mortar to assist in achieving a reliable bond. It is also used in concrete mix for bonding of new concrete to old concrete and joining of successive concrete layers.

## PROPERTIES

- ✓ It enhances the tensile and bond strength of the concrete layers
- ✓ It provides excellent adhesion and workability
- ✓ It prevents cracking by improving flexural strength
- ✓ Improves the hardness and prevents dust generation
- ✓ Reduces drying and aging shrinkage cracks
- ✓ Bond strongly to concrete, stonework, plasters, steel and most of other building materials
- ✓ Improves erosion resistance
- ✓ Does not cause any corrosion
- ✓ Improve abrasion resistance of cement mix
- ✓ Enhance the strength of the repaired surfaces and increases durability
- ✓ Less material wastage by avoiding rebound loss (material does not fall back or rebound)

## PROPERTIES

- ✓ Shake well before use
- ✓ The chemical must be then poured in the appropriate amount into a separate bowl and diluted with water as per required consistency.
- ✓ This mixture can be used as a primer for old concrete and cracked surface.

## AREAS OF APPLICATION

- To join the old to the new concrete surfaces
- To join the surface between successive concrete layers
- To repair cracks
- To reduce wastage when plastering any surface

## SURFACE PREPARATION

- Clean the surface
- Any adhesion reducing substances like oil, grease, paints, dust must be removed
- Chisel/roughen the surface to increase mechanical adhesion

## MIXING

For crack repair: 5L bonding agent is used for a bag of cement (50kg), 120 Kg of sand and 5L of water

For Concrete Mix: 0.5L of bonding agent is used for a bag of cement (50Kg)

## APPLICATION

- Once the concrete mix is prepared by incorporating the bonding agent, it must be applied on the surface immediately
- The mix has to be applied when the chemical is still tacky and not completely dry
- If too much time has passed the primary coating may dry off losing its adhesion property.
- Once the application is completed, smoothen the surface with the help of a trowel and allow it to cure.

## PRECAUTIONS

- When mixing the bonding agent, you must use a concrete mixing machine
- Eyes, nose and skin should be protected by wearing security goggles, gloves and dust mask.
- In case of contact, wash with plenty of water.
- In case of eye contact, immediately seek medical attention

## COVERAGE

For compressive strength of concrete C-25 and mix ratio of (1:2:3), use 1L of Darma Mixture for 100kg of cement or 0.27m<sup>3</sup> of concrete

## PACKAGING

- 5L plastic container

## STORAGE

- 24 months; when stored in dry place in unopened and undamaged original packaging.

## Technical data

Appearance	Liquid
Color	White