



# DARMA CRYSTAL

Single Component Crystalline Waterproofing



## OVERVIEW

Darma Crystal is a high-performance, cement-based crystalline waterproofing material designed for durable waterproofing of concrete structures.

## PROPERTIES

- ✓ Impregnate type waterproofing
- ✓ Blocks the capillaries and minor shrinkage cracks
- ✓ Single component
- ✓ Mixed easily
- ✓ Good adhesion to most surfaces
- ✓ Non-Toxic
- ✓ Negative side waterproofing

## AREA OF APPLICATION

- ✓ Basement
- ✓ Shear wall
- ✓ Interior wall
- ✓ Tunnels
- ✓ Water tanks
- ✓ Foundations
- ✓ It can be applied on all Negative side surfaces

## Surface Preparation

- Ensure the substrate is clean, structurally sound, and saturated surface dry (SSD).
- Any adhesion reducing substances like oil, grease, paints, dust must be removed
- For optimal results, it is recommended to brush the concrete surface with a grinder. This helps to create a more porous and uniform surface, increasing the bonding strength of the waterproofing material.
- Dampen the surface without leaving any standing water

## MIXING

- Mix the crystal and water with the ratio of (3:1) depending on the number of coats and area to be covered. (Mix 15kg of Darma Crystal with 5-7.5L of water)
- Mix in a clean container for at least 15 minutes for manual mixing and 10 minutes for machine mixing to a lump free, homogenous consistency of thick oil paint

## APPLICATION

- Apply the primary coat of at least 1mm thick using fiber brush trowel, or spray method.
- Wait 6-8 hours until the first coat dries.
- Keep the applied area moist for atleast 7days to allow effective crystalline growth.

## COVERAGE

- It depends on cleanness and levelness of the surface; 15Kg of crystal covers up to 16m<sup>2</sup> of surface.

## PACKAGING

- 15kg plastic container

## Storage

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

## Precautions

- Always apply at least two coats of the crystal waterproof
- Avoid using sharp tools after applying waterproof
- Eyes and skin should be protected by wearing security goggles, gloves and dust mask.
- In case of skin contact, wash with plenty of water.
- In case of eye contact, rinse cautiously with water for several minutes. Seek medical advice if the irritation continues.

## Technical data

Appearance	Powder
Color	Grey
Bond strength /pull-off strength	>1.6 N/mm2
Bond strength after water immersion	>2.12 N/mm2
Compressive strength 7 days	14.24 Mpa
Water absorption	15.82%
Impermeability to water	No penetration

N.B. The information given in this data sheet is based on both current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no control over methods of application, site, conditions etc.



**GRACE**  
CONSTRUCTION  
CHEMICALS

+251 964 234 444  
+251 929 337 886

@grace\_construction\_chemicals