



DARMA PROOF

Two component Waterproofing solution



OVERVIEW

Darma proof is a two component cement based polymer modified water proofing system, which on application provides an excellent water resistant barrier. It also offers excellent resistance to positive pressures.

PROPERTIES

- ✓ Good adhesion to surfaces
- ✓ Protect against water penetration
- ✓ It is easy to mix and apply
- ✓ components are pre-batched (no additional materials are required like water)
- ✓ Improves water tightness of water containing concrete tanks, reservoirs and clear wells
- ✓ It is abrasion, weathering and other chemical resistant
- ✓ Excellent freeze or thaw resistance
- ✓ Can be mixed to slurry or trowelable consistency
- ✓ Improve concrete/masonry appearance

SURFACE PREPARATION

- Clean the surface
- Any adhesion reducing substances like oil, grease, paints, dust must be removed
- On new or smoothed faced concrete, surface should be roughened (sand blasted) to provide an open pored surface to enhance the effectiveness of the water proofing process
- Dampen the surface without leaving any standing water

AREA OF APPLICATION

- ✓ Bathrooms & Kitchens
- ✓ Foundations
- ✓ Basements
- ✓ Shear walls
- ✓ Concrete tunnel
- ✓ Swimming pools
- ✓ Water treatment facilities
- ✓ Sewage treatment plants
- ✓ Closed Terraces and Balconies
- ✓ Bridges, dams, railway & metro system

MIXING

- Depending on the number of coats and area to be covered, mix the water proof with ratio of (10kg powder to 5L liquid or 20kg powder to 5L liquid and 2kg powder to 1L liquid)
- 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 a fiber brush
- Wait 3-8 hours until the first coat dries depending on the ambient Temperature.
- Apply the secondary coat perpendicular (90°) to the first coat (crosswise) in order to cover spaces that were uncovered because of surface irregularities.
- After 24-48 hours of curing do water test and proceed to the next phase of construction.

COVERAGE

It depends on the cleanness and levelness of the surface

- **Darma Mini** (2 kg powder and 1L liquid):- covers up to 2-2.4 m² of surface with double coat.
- **Darma proof** (10kg powder and 5L liquid):- covers up to 10-12 m² of surface with double coat.
- **Darma proof pro** (20kg powder and 5L liquid):- covers up to 14m² of surface with double coat.

PACKAGING

- Darma Mini :- 2 kg powder and 1L liquid
- Darma proof :- 10kg powder and 5L liquid
- Darma proof pro:- 20kg powder and 5L liquid

STORAGE

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

PRECAUTIONS

- Always apply the cementations water proof in two coats
- Don't add water
- Apply the necessary cover for the waterproof after testing
- Avoid using sharp tools after applying water proof
- Eyes and skin should be protected by wearing security goggles, gloves and dust mask.
- If the above PPE is properly utilized and in case of skin and eye contact wash with plenty of water and Seek medical advice if the irritation continues.

Technical data

Appearance	Powder and liquid
Color	Grey solid and white liquid
Bond strength /pull-off strength	>1.26 N/mm ²
Bond strength after water immersion	>2.23 N/mm ²
Compressive strength(EN:196-1)	
7 days	19.72 Mpa
21 days	30.00 Mpa
Flexural strength	
7 days	4.97 Mpa
21 days	9.49 Mpas
Water absorption	1.96%
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.



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