

> DRY PLAST

CARBOSIL DRY PLAST is a Technical restoration plaster designed to repair masonry suffering from severe moisture and salt contamination.

Description

CARBOSIL DRY PLAST is a specialized, high-performance plaster tailored for repairing and maintaining masonry affected by significant moisture and salt contamination. It boasts a formulation with a high pore volume and hydrophobic properties, enabling trapped wall moisture to evaporate safely as water vapor while capturing construction-damaging salts within its internal matrix. This ensures the visible wall surface remains dry and damage-free.

Unlike waterproofing mortars, restoration plasters are not intended to **block water entirely**. Instead, they work by **absorbing moisture, storing salts internally, and allowing evaporation**.

It allows water to penetrate upto **5 mm**. after that it allows easy water vapour formation and evaporation. hence salts are left behind and stored inside

Fields of application

- Applied after the post-installation of DRY SEAL against rising damp.
- Addressing damp damage caused by condensation.
- Can be utilized specifically as an anti-mold plaster.
- Can be used as a water-repellent exterior plaster.
- Suitable for both interior and exterior use.
- Used for restoring living spaces, as well as private and commercial areas.
- Especially useful on old masonry in cellars and foundation areas.

Features and Benefits

- Prevents Efflorescence: Ensures the final plaster surface remains completely free of unsightly salt efflorescence.
- Improves Insulation: The high air pore content improves the insulative properties of the wall, helping to reduce future condensation.
- Versatile Application: Can be applied manually or mechanically using a plaster spray machine.
- Fast Acting: Features reactive binding and rapid build-up of hydrophobicity, meaning it is quickly resistant to salt penetration even during the curing phase

Technical Data

COLOUR	Grey
Compressive Strength	> 5.5 N/mm ² at 7 days
Capillary Water Absorption	> 0.3 kg/m ² after 24h
Water Vapor Permeability (μ)	μ 10
Adhesive / Tensile Strength	0.08 N/mm ²
Reaction to Fire	A1
Porosity (Cured Plaster)	> 30 Vol.-%
Thermal Conductivity (λ)	< 0.25 W/(m·K)
Mixing	3.25 to 3.5 ltr of clean water with 25kg bag
Pot Life	60 minutes
Application Temperature	5°C to +30°C
Service Temperature	20°C to +80°C
Application Tools	Mason tools. i.e. wooden float etc.
<i>Drying Time</i>	
initial setting	1 day
final setting	7 days
Density of fresh mortar	1.3 to 1.5 kg / l

Application Procedure

Application Procedure:

Phase 1: Surface Preparation (Critical Step)

- Completely remove old, salt-contaminated, and damaged plaster up to at least 30 cm above the visibly damaged area or the highest salt/damp line.
- Clean the surface mechanically to ensure it is load-bearing and free of dust, grease, oil, and other substances that might prevent adhesion. Avoid using water for cleaning.
- If the surface is dusty or significantly salt-damaged, treat the masonry with MULTI PRIME or anti-sulfate solution to stabilize the salts before plastering.

Phase 2: Plaster Key Application

- For proper bonding, apply a semi-covering key coat (bonding slurry) to the prepared substrate.
- This coat should cover approximately 50% to 60% of the wall surface.
- Apply the plaster key in a thin layer, no thicker than 5 mm.
- Allow this pre-plaster layer to harden and cure before moving on to the main restoration plaster.
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Phase 3: Mixing

- Pour the 3.25l to 3.5l of clean, potable water into a clean mixing vessel or bucket.
- Gradually add the DRY PLAST powder while continuously mixing.
- Use a suitable mechanical stirrer or compulsory mixer (operating between 400 to 700 rpm).
- Mix for about 2 to 3 minutes until the mixture is completely homogeneous and free of lumps.

Phase 4: Application

- Apply the plaster manually with a trowel or mechanically using a plaster spraying machine.
- Ensure the total layer thickness is at least 1.5 cm (15 mm) to effectively hold salts.
- For thicknesses greater than 2 to 3 cm, apply the plaster in multiple layers.
- When using multiple layers, apply the first coat, strike it off, and roughen the surface thoroughly once it starts to stiffen. Allow it to dry before applying the second coat.
- Use a straight edge, feather edge, or plasterer's darby to true and level the final plaster layer.

Phase 5: Finishing & After treatment

- Once the final layer begins to set, smooth or felt-board the surface matt damp using a float. Be cautious not to rub the surface prematurely or too intensively, as this can cause stress cracks due to a concentration of binder.
- Protect the freshly applied plaster from rapid drying caused by strong drafts, direct sunlight, rain, or wind.

When fully cured, any decorative coatings applied must be highly open to water vapor diffusion, such as DRY COAT.

Consumption

25 kg bag will cover approximately 1.5 to 1.8 m²

Packaging

25 KG BAGS

Storage

12 months in original, unopened package.

Shelf Life

Store in dry area between +5°C and +35°C. Protect from heat, freezing and direct sunlight

Cleanup Information

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

Cautions/Limitations

- Substrate: Remove all gypsum. Never clean with water or steam.
- Application: Protect from fast drying (sun, drafts). Avoid over-rubbing to prevent stress cracks.
- Finish: Use only vapor-permeable paints.
- Safety: Wear gloves and goggles

Health and Safety

Warning! Cause eye and skin irritation. If eye or skin contact, get immediate medical attention. If swallowed, do not induce vomiting. Call a physician or poison control center. Never give anything by mouth to an unconscious person.

Wash hands thoroughly after handling. Wear protective clothing, gloves, eye and face protection.

Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Dispose of unused, contents, container and other contaminated wastes in accordance with local, state, federal and provincial regulations.

Keep container closed when not in use. Keep out of the reach of children.

Limited Warranty: This product is subject to a written limited warranty which can be obtained free of charge from Carbosil Company. Please contact with technical service department for further information and support.

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4/4 Dry Plast
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