

DRYPLUG

**ONE COMPONENT QUICK SETTING MORTAR,
WITH VOLUMETRIC STABILITY AND CRYSTALLINE ACTION,
FOR SEALING WATER LEAKS IN CONCRETE STRUCTURES**

CHLORIDE-FREE



PRODUCT DESCRIPTION

DRYPLUG is a one component, ultra-fast setting cementitious mortar with high structural stability. It is formulated using hydraulic binders and specially designed water-soluble additives. These characteristics, combined with crystalline technology, result in the formation of an insoluble crystalline complex that shields it from water infiltration and chemical aggressions originating from any direction, effectively blocking and sealing even strong water leaks from concrete structures. The crystalline chemical remains active over time.

FEATURES

- Stops strong water leaks in concrete
- Emergency restoration interventions
- Contains a long-lasting active ingredient
- High resistance to chloride ion penetration (marine environments or de-icing salts)
- Does not contain resins or elastomeric products

GREEN TECHNOLOGY

DRYPLUG is an eco-friendly product that utilizes the chemistry of concrete to perform its function, allowing for future recycling and avoiding the use of petroleum derived coating materials that would require costly disposal in future.

AREAS OF APPLICATION

- Repairs of significantly cracked concrete structures with water leakage
- Repair of strong water leaks in negative pressure from tanks and reservoirs
- Repair of severe leaks in basements, construction joints, or intersections between walls and slabs

SURFACE PREPARATION

Remove degraded or inconsistent loose concrete until reaching a sound and solid substrate.

PRODUCT PREPARATION

Mix the product with water at a rate of 250/300 ml per kg of powder, adding water a little at a time until the correct consistency is obtained (plastic material). Continue working the product thus obtained with a gloved hand until it starts to heat up. As soon as it starts to heat, apply it immediately. The product reacts quickly and is very fast, so mix the quantities of product strictly necessary and apply immediately. At temperatures below 20°C the time for the mixture to generate heat will be a little longer.

APPLICATION

Wear gloves and shape the product into a sphere by hand, then insert it into the cavity (when the mixture starts to generate heat after 30/60 seconds), applying with strong pressure until it is completely hardened (2/3 minutes). When sealing cracks under strong negative hydrostatic pressure, start from the top and work downward. It may also be necessary to use a drainage pipe, placed at the lowest point of the crack, to reduce water pressure while sealing the affected area. Remove the pipe and seal the water leak upon completion.

LIMITATIONS

DRYPLUG has extremely rapid setting and hardening times compared to regular mortars. It is advisable to prepare a limited quantity for use within a short period (usually what fits in one's hand) because adding water when the product is already started setting would cause performance degradation and product ineffectiveness. Do not apply DRYPLUG when the ambient temperature is below 4°C.

WARNINGS

Due to DRYPLUG's ultra-fast hardening, it is important to evaluate the timing of interventions to maximize product effectiveness.

HEALTH AND SAFETY

DRYPLUG contains chemicals that can cause skin irritation. It is recommended to use gloves, goggles, and a mask when handling the product and follow precautions for chemical handling. For further and complete information on safe product use, refer to the Safety Data Sheet.

STORAGE

The product must be stored in dry places. Keep it in its sealed packaging and use it within 12 months.

PACKAGING

The product is available in 10 kg and 25 kg buckets.

TECHNICAL DATA

Test description	Test methods	Characteristics in accordance with EN 1504-3
Compressive Strength after 1 hour	UNI EN 12190	> 5 MPa
Compressive Strength after 1 day	UNI EN 12190	> 11 MPa
Compressive Strength after 28 days	UNI EN 12190	> 25 MPa
Flexural Strength after 1 hour	UNI EN 196/1	> 2 MPa
Flexural Strength after 1 day	UNI EN 196/1	> 3 MPa
Flexural Strength after 28 days	UNI EN 196/1	> 4 MPa 20° C
Setting time at 20°C		120 - 180 s
Complete hardening at 20°C		180 s
pH		12.8



Green Building Council Italia

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