

FUERZA AQUA-PLUG

FAST SETTING PLUGGING LIQUID

FUERZA AQUA-PLUG is a **rapid-setting liquid plugging additive** designed for the immediate sealing and arresting of water leakage. When blended with cement, it develops an exceptionally fast setting reaction, enabling effective leak sealing within seconds, including applications involving **active water flow**. The material can be mixed to a **malleable, plug-like consistency** and applied directly to leaking areas to rapidly restrict and stop water ingress.

ADVANTAGES

- Rapid setting performance, typically achieving initial set within **30–60 seconds**, facilitating rapid water-flow interruption and leak sealing.
- Simple and efficient application requiring only the addition of **cement** to develop the required plugging consistency.
- **Chloride-free formulation**, minimizing the risk of corrosion to embedded steel reinforcement.
- **Non-toxic composition**, making it suitable for use in **potable water systems**, subject to applicable approvals.
- Premixed formulation ensures **uniform composition, consistent performance, and reliable application results**.

TYPICAL APPLICATIONS

- Sealing and plugging of active water leaks in **water-retaining structures, basements, lift wells, inspection pits, tunnels, and underground structures**.
- Filling and sealing of **joints, concrete tunnel segments, precast concrete elements, and pipe connections**.
- **Pointing, localized patching, and leak-repair applications** prior to the installation of waterproof renders or the **FUERZA CRISTA-SHIELD** crystalline waterproofing system.

APPLICATION PROCEDURE

Surface-Preparation:

The substrate must be thoroughly cleaned and free from dust, oil, grease, laitance, curing compounds, mould-release agents, and other contaminants that may adversely affect adhesion and performance.

Application:

1. For leaks under hydrostatic pressure, chase out the leakage point to a minimum depth of **20 mm**, forming a sound cavity around the active water path.

TECHNICAL INFORMATION

Density: 1950 kg/m³

Strength development

At 15 minutes: 3 N/mm²

At 1 hour: 6 N/mm²

At 24 hours: 7 N/mm²

2. Prepare the plugging compound by mixing **FUERZA AQUA-PLUG** with the required quantity of cement to achieve a firm, malleable consistency. Using a gloved hand, immediately press the material firmly into the prepared cavity and maintain pressure until the compound has set. Where required, additional FUERZA AQUA-PLUG solution may be applied to the repaired area to assist in sealing residual seepage.
3. Following successful leak arrest, proceed with the recommended waterproofing treatment using the **FUERZA ACRI-SHIELD crystalline waterproofing system**.

Mixing-Instructions:

FUERZA AQUA-PLUG may be mixed manually using a clean rod or gloved hand until the required malleable consistency is achieved. Only prepare an amount that can be placed immediately, as the material develops its set rapidly. Mix **FUERZA AQUA-PLUG liquid with cement at a 1:3 ratio by volume**.

Watchpoint:

Under no circumstances should the cement content exceed the specified **1:3 FUERZA AQUA-PLUG-to-cement ratio**. The resulting mixture should maintain a semi-dry, malleable consistency to permit proper hydration in contact with leakage water.

Equipment-Care:

Clean all tools and equipment immediately after use with clean water. Once hardened, FUERZA AQUA-PLUG can only be removed by **mechanical means**.

STORAGE & PACKAGING

Store FUERZA AQUA-PLUG in a **cool, dry and well-ventilated area**, protected from direct sunlight and rainfall, and elevated from the ground on suitable pallets. Avoid excessive stacking or compaction to prevent damage to the product or packaging. Improper storage may result in premature deterioration of the material or packaging. For specific storage requirements, consult the **FUERZA Technical Services Department**. The product has a **6-month shelf life** when stored in unopened, original packaging under recommended conditions. FUERZA AQUA-PLUG is supplied in **1 L, 5 L and 10 L** containers.

HEALTH & SAFETY

Handle and store the product in accordance with standard precautions for chemical materials. Avoid contact with **skin, eyes, mouth, and foodstuffs**, and ensure adequate ventilation during handling and application. In case of contact with skin or eyes, immediately flush the affected area thoroughly with clean water and seek medical attention if irritation persists. If accidentally swallowed, obtain **immediate medical attention**. Keep containers tightly sealed when not in use. For detailed health, safety, handling, and disposal information, refer to the applicable **Material Safety Data Sheet (MSDS/SDS)**.

