

Description:

TechnoCem™ WP1 is a ready to use cementitious mortar **component-B** for flexible waterproofing system, based on cement, fine fillers, selected graded aggregates, plus special waterproofing additives to produce a flexible mortar that is ideal for waterproofing surfaces when added to aqueous, anionic, plasticizer-free dispersion of an acrylic-styrene copolymer. **TechnoCem™ WP1** is suitable for application by brush, roller, trowel or spray equipment

TechnoCem™ WP1 is one component (Part B in powder form only) for Flexible Cementitious Waterproofing membrane and must need to be added to **Techno Builders Solutions®** range of aqueous, anionic, plasticizer-free dispersion of an acrylic-styrene copolymer (Liquid Component A) at site to make Flexible Cementitious Waterproofing membrane in 2:1 and 3: 1 ratio (Powder: Liquid) as per thickness requirement.

Application Includes:

TechnoCem™ WP1 is recommended for use in the following areas of application-

- Waterproof protection of concrete structures including tanks, basins, pipes, etc.
- Waterproofing external wall surfaces to be backfilled in ground.
- Internal waterproofing of walls and floors, in basements.
- Waterproofing of terraces and balconies over concrete or prepared existing tiles.
- Flexible protection coating for reinforced concrete structures against the effects of de-icing salts, freeze-thaw and carbon dioxide swell consolidation.

Features & Benefits:

- Can be applied on damp substrates and Easy to apply by brush, roller, trowel or spray equipment.
- Good sag resistance and easy to apply, Excellent vertical hold-up
- Good crack-bridging properties thus Flexible & Low VOC content.
- Very good adhesion on many substrates including concrete, cement mortars, stone, ceramics, bricks and timber.
- Mixing ratio can be adjusted in order to obtain the consistency and workability desired for the intended application.

Applications Instructions:

Substrate Preparation

Surfaces must be clean, free of gypsum and foreign matter including oil and wax residues, curing/release agents and any other contaminants that may compromise adhesion. Surfaces must be in a solid, sound state prior to beginning the application. All sharp objects are to be removed and all voids filled flush with a suitable cementitious repair compound, such as **TechnoCem™RM (HG)**. Surfaces are best prepared by mechanically grinding followed by pressure wash with water.

Mixing

Empty liquid component in a clean mixing container, and slowly add the **TechnoCem™ WP1** (powder component) whilst stirring using a slow speed (500-600 rpm) heavy-duty electric drill with a suitable paddle. Mix until homogenous slurry is obtained and make sure that no unmixed powder is left at the bottom of the container.

Do not mix more material than can be used in one hour. Do not apply to dry concrete. Saturate concrete surfaces with clean water and apply whilst still damp (saturated surface dry), using a short, stiff bristle brush or roller. Trowel application can be undertaken as necessary. For heavy 6-10mm depressions, honeycombs etc. use less gauging liquid and mix to the desired consistency.

Where more than one coat is found necessary to achieve the desired thickness, apply the second or subsequent coats after the previous coat has dried. It is recommended, for general resurfacing, that each coat should be a minimum of 1.0 mm thick

Typical Properties at 25°C:

Form	Free Flowing Powder
Colour	Cement Grey
Chemical Base	Cement modified with polymers, selected aggregates, admixtures, and additives.
Substrate Temperature	min. + 5°C; max. + 35°C
Ambient Temperature	min. + 5°C; max. + 35°C
Pot Life	~ 30 min.@ +20°C

- Ready to use when added to aqueous, anionic, plasticizer-free dispersion of an acrylic-styrene copolymer (Liquid Component A).

Curing

The finished **TechnoCem™ WP1** must be protected from rapid drying. Curing of **TechnoCem™ WP1** shall be at least 72 hours before flood testing or shower test. Moist curing should be done for a period of 5 days by spraying / sprinkling of potable water after about 6 hours from the time of application of the final coat. After moist curing the coating shall be allowed to dry before submersion in water. Do not allow the rapid drying of the coating by covering the coating with help of polythene sheet in case of high humidity and windy condition.

Special requirements

All connections between the substrate and pipe entries, plant and equipment, light switches etc., must be sealed and watertight. Joints in concrete, pipes, anywhere else in the structure must also be sealed and made watertight.

Use covered details at the floor/wall junctions.

Avoid any stagnant water presence or condensation/ ponding on the surfaces before application

Packaging

TechnoCem™ WP1 supplied in 30 kg HDPE Bag.

Storage

TechnoCem™ WP1 should be stored under covered shed in ambient temperature with no contact with sunlight

Shelf Life

12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 35°C.

Health & Safety Instructions

Protect your health while working with this material, always use safety goggles, gloves and safety clothing. When handling hazardous materials or pressurized materials, or during any application that may result in spills, splashes or airborne particles, a full face shield is strongly recommended. Protect yourself and others on the jobsite. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals.

Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area.

Additional Information: Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd -The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

*Separate datasheet are available on these products.

Disclaimer: The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

Edition: 08/2017/001 Identification No: PD-29-B
This datasheet supersedes all previous versions.

STERLING TECHNOTRADE INDIA PRIVATE LIMITED

The Specialist Construction Chemical Company®

Head Office: 109-111-112, 1st Floor, Vijaya Building, No. 17, Barakhamba Road, Connaught Place, New Delhi- 110001

Manufacturing Unit: Plot No-J-3, UPSIDC Site C, Surajpur Industrial Area, Greater Noida, Uttar Pradesh 201306

WEB: sterlingtechnotrade.com | **EMAIL:** support@sterlingtechnotrade.com | **TEL:** 01145084212