



# Duraplast WR

**MANUFACTURER :**

MILLWALA BUILDING PRODUCTS  
STEEL HOUSE, WEST WHARF ROAD,  
KARACHI 74000  
PAKISTAN  
(9221)32856601 - 02

**INTRODUCTION**

Duraplast WR is a water repellent and breathable plaster providing a completely waterproof barrier, sealing and preventing the ingress of water on either side of plaster while remaining air-permeable, allowing trapped moisture to evaporate.

Duraplast WR offers a unique, long lasting solution to moisture and vapour related problems associated with a wall's surface. It is exceptionally applicable in any area of the building industry where water resistant material is essential.

Duraplast WR does not contain harmful or flammable material and is environmentally friendly.

**PRODUCT DESCRIPTION**

Duraplast WR is a prepared mixture of Portland cement, select fillers and proprietary additives. It is supplied as a ready mix plaster that requires only addition of water on site.

Duraplast WR is a waterproof breathable, vapour and air permeable plaster which is installed over properly prepared concrete, masonry or over framed construction. It is a fine grade plaster applicable as undercoat and professional finish coat.

Depth of water penetration =  $\leq 1\text{mm}$   
Minimum Thickness = 5mm

**MIXING RATIOS:**

Mix 5 ltrs of clean and sweet water to 25 kgs of Duraplast WR for 3 minutes. Leave the material for 3 to 5 minutes and remix before use.

It is recommended to mix the content with a power mixer to get a uniform and lump free material, however, mixing can also be done by hand for smaller quantities. Always add powder to the water.

Working time is approximately 1 hour, depending on ambient conditions, Hardened plaster should not be remixed or reused.

Note: The measured water addition to the mix should remain constant to get uniform colored finish on a project. Setting of water ratio to be adjusted to get required workability especially during hot weather conditions.

All calculations are based on by weight basis.

**BENEFITS**

- Exceptional waterproofing capability
- No need for additional coatings
- Resistant to direct water contact
- Air & Vapour permeable, allowing trapped moisture to evaporate
- Excellent cohesion and bonding strength
- Can be applied to wet surfaces
- Prevents salt efflorescence
- Can be applied by spray or trowel

**POSSIBLE APPLICATIONS**

Duraplast WR is designed for renovating and waterproofing of walls of buildings, cellars and basements. It provides a long lasting solution to problems caused by water and moisture in conventional masonry, concrete construction and fair faced concrete.

Applications include restoration, repair work, and new plastering where protection is needed against water damage.

**WORK PROCEDURES****SURFACE PREPARATION**

Before applying Duraplast WR, it is important to always remove all existing plaster, stucco, loose particles, residual paint, oil, rust, dust and other impurities. Defective wall elements such as damaged bricks should be repaired or replaced.

If used as a repair mortar, the old plaster should be removed till 30 to 40 inches above the boundary of water incursion. If salt efflorescence is present, jointing must be raked to a depth of 20mm.

The wall surface should be thoroughly cleaned with suitable equipment such as high pressure water jetting or water /wire brush. Water absorbent surfaces should be moistened with water before application.

**PACKAGING**

Supplied in 25 kgs water resistant paper bags.



# Duraplast WR

## APPLICATION

Duraplast WR can be applied by trowel or spray applicator. Depending on the condition of the surface, it may be applied in no more than three layers.

For a higher thickness application, a scratch coat approximately 10mm thick should be applied. Surface of the scratch coat should be rough to form a mechanical key for succeeding second coat. Scratch coat can be evened to provide a total scratch thickness of 19mm, if specified.

The final 3mm of the application can be skimmed to smooth the surface. Duraplast WR must be water cured for for approximately eight hours between layers.

If the first layer is fully set, it should be moistened before a second coating is applied as it works best wet on wet.

Duraplast WR is a fine grained plaster that can be applied as a finish coat. Surface textures as well as finish can be achieved using standard stucco tools, while plaster is still workable.

## POST APPLICATION TREATMENT

It is important to prevent Duraplast WR from drying too quickly. Sufficient moisture is required to permit continuous hydration of the cementitious material and to minimize cracking. Moist curing must be provided for minimum 24 hours depending on the weather conditions. Walls exposed to direct sunlight and wind should be cured for 7 days after plastering. During this process care must be taken to avoid erosion damage to plaster surface. Plastered interior walls require adequate ventilation to cure.

The final layer of plaster may be painted with air-permeable paint only. Do not use oil based paint. The final layer can be tiled.

## COLORS

Duraplast WR can be manufactured in select colours on request: Please check for required color.

Custom colors are available upon request with a minimum order of 100 KGs. Please contact your Millcrete Representative for additional information.

## CAUTION

As with all cementitious product, variation in colour is expected.

## SAFETY INFORMATION

Contains silica. Avoid contact with eyes and prolonged contact with skin. In the event of contact, flush eyes with water immediately or wash skin with soap and water.

KEEP AWAY FROM CHILDREN.

## AVAILABILITY AND COST

Available through a network of certified Millcrete distributors. Contact manufacturer for location information. Cost may vary with location.

## WET AREAS APPLICATION

When plastering extremely wet masonry with Duraplast WR, there is a possibility of water aggregation on plaster surface. This is natural and will disappear as the plaster sets. It may be necessary to remove any accumulated water from the surrounding areas.

## LIMITATIONS

Do not apply when the ambient temperature is below 4°C or above 38°C. The ambient temperature must stay consistently within this range for a minimum of 48 hours after application for the material to properly cure.

## COVERAGE

25 kgs will cover approximately 10 to 12 sq. mtr. @ 3mm thickness.

## SHELF LIFE

Duraplast WR will remain usable for up to 12 months if stored in its original packing on wooden pallets or shelving in dry conditions. Cover and protect from sun light and freezing conditions.

## WARRANTY

All recommendations, statements and technical data contained herein based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his use of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person having any injury, loss or damage directly or indirectly resulting from use of or inability to use the product.

## IMPORTANT NOTICE

THESE PRODUCTS ARE SOLD SUBJECT ONLY TO THE EXPRESSED WARRANTIES CONTAINED HEREIN. ADDITIONAL WARRANTIES, EXPRESSED OR IMPLIED, AND ANY WARRANTY OF MERCHANTABILITY IS HEREBY EXCLUDED. BUYER AGREES THAT SELLER ASSUMES NO LIABILITY FOR CONSEQUENTIAL DAMAGES OF ANY KIND, WHICH RESULT FROM THE USE OR MISUSE OF THE MERCHANDISE SOLD HEREUNDER. IN THE EVENT THAT THE BUYER PROVES THAT ANY GOODS RECEIVED DO NOT CONFORM TO THE SPECIFICATIONS AGREED TO BETWEEN THE PARTIES OR IF THE BUYER PROVES THAT SUCH GOODS WERE DEFECTIVELY MANUFACTURED. THE BUYER'S REMEDIES SHALL BE LIMITED TO EITHER THE RETURN OF THE GOODS AND REPAYMENT OF THE PURCHASE PRICE OR REPLACEMENT OF THE NON-CONFORMING GOODS AT THE OPTION OF THE SELLER. SUCH REMEDY BEING EXCLUSIVE OF ALL OTHERS AND THE SOLE REMEDY AVAILABLE TO THE BUYER, HEREBY EXPRESSLY WAIVES ANY CLAIM TO ADDITIONAL DAMAGES.