

# WELTSEAL 798

POLYURETHANE ONE COMPONENT  
NON-EXPOSED TYPE

## **DESCRIPTION:**

**WELTSEAL 798** is a one component non exposed type waterproofing membrane used for long lasting waterproofing, cold applied and cold curing. It has a wide range of uses and wide tolerance to expansion and shrinkage of substrate.

## **APPLICATION:**

All preparatory work must be completed before application begins. Make sure that the substrate is clean, dry, stable, and properly outlined sealants and pre-striping should be properly cured.

Apply the primer by roller or brush, until the surface to be primed, is covered. For larger surfaces, airless spray application is possible.

After 3 hours (not later than 4 hours) and while the first coat is still a bit tacky, apply the WELTSEAL 798, mid and finish coats using an appropriate size of squeegee to arrive on the required mil thicknesses.

The best method to ensure the proper wet film thickness is the use of a grid system. Divide the surface to be coated into grids and calculate the square footage of each. Refer to the coverage chart to determine the quantity of WELTSEAL 798 needed for each grid to arrive on the required mil thickness. For example, one pail of WELTSEAL 798 will cover an area of approximately 17-18 square meter per 20 kgs pail in 1.0 mm thickness.

The mil, thickness of all coats can also be verified by the use of a wet-mil thickness gauge.

## **USES:**

The WELTSEAL is ideally suited in:  
Wet areas (under-tile) such as Bathrooms, Balconies and kitchens, swimming pool tanks.  
Balconies and Terraces  
Waterproofing of Roofs with inverted insulation  
Flowbeds and planter boxes  
Building's Basement  
Bridge-decks, tunnels, etc.

POLYURETHANE



## PROPERTIES:

PROPERTY	RESULT
Appearance	Black Liquid
Viscosiy (20 C)	4000-7000 cps.
Pot Life	30-45 mins.
Curing time (25 C)	1 day
COnsumption Rate/sqm	1.2 kg
Coverage Rate/23 kg pail	18 sq.m
Solid Content	92+-2
Packaging	20 kgs/pail
Color Availability	Black

PROPERTY	RESULT
Service Temperature	5 C- 35 C
Shelf Life	12 mos.
Tensile Strength	1.96 N/mm2
Tear Strength	1.27 N/mm2
Elongation	> 550%
Crack Bridge	2mm
Hardness (Shore A)	40+-10
VOC	80 g/L
Substrate Temperature	5 C- 35 C
Substrate Moisture	Below 5%

## PREPARATION:

- 1.The surface must be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane.
- 2.Maximum moisture content should not exceed 5%. New concrete structures need to be dry for at least 28 days.
- 3.Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by grinding machine.
- 4.Possible surface irregularities need to be smoothed.

## TROUBLESHOOTING:

Problem - likely causes:

**Irregular Appearance**- substrate is too rough, uneven coating application, and uneven aggregate distribution.

SOLUTION: Recoating may improve appearance. The number of additional coat(s) depends on the degree of irregularity. A sample recoat should be done.

**Premature Wear Over High Spots**- failure to grind down the concretes or junctions of slabs that is not evenly line up.

SOLUTION: Grind High Areas. Recoat affected area with entire WELTSEAL 798 system.

**Uneven Aggregate Distribution**- casting of coats was aggregated unevenly and inconsistently.

SOLUTION: Aggregation should be evenly distributed before encapsulation. If the surface curves unevenly, a recoat may improve appearance. Use sample area to gauge results of coat.

**Inadequate Slip Resistance**- inconsistent coating application failure to properly embed aggregate overly heavy finish coat.

SOLUTION (1): When putting aggregates into refusal method, incorporate an additional 10lb/100 ft<sup>2</sup> (0.5 kg/m<sup>2</sup>) aggregates into the final lock coat.

SOLUTION (2): Start with a sample area. Lightly abrade surface to expose aggregates.

**Blisters**- coating application is too heavy or the substrate is wet.

SOLUTION: Cut blisters and repair spot as needed.

**Poor Adhesion to Concrete**- concrete surface too is smooth (not properly outlined) or friable; concrete contaminated by dirt, oil, or moisture, etc.

SOLUTION: Fix underlying problem, then reapply WELTSEAL system.

**Inter-coat Adhesion is Poor**- preceding coat is contaminated by dirt or moisture; topcoat applied passed critical recoat time.

SOLUTION: Fix underlying problem, then reapply WELTSEAL system. For additional information, contact WELTANCHAUNG CORPORATION Technical Service.

**Sagging in Vertical Application**-

SOLUTION: Apply multiple thin coats of both base and top coats to achieve desired film thickness. If sagging occurs, back roll as soon as possible.