Masonry Cement Composites (Pty) Ltd

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Hyrez WR 5Lt



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TECHNICAL DATASHEET

HYREZ WR
Polyurethane Wall Render

PU WR is a trowel applied polyurethane wall render for industrial use. Highly chemical resistant, with slight flexibility, to give a smooth, matt finish whilst still allowing hygienic cleanliness and seamless wall to flooring. Supplied in a variety of colours for use in environments that range from back of house to wash bays, concrete plinths, splashbacks, and light processing areas. Organohalogene tested and approved by Thales as part of the HYREZ range of polyurethanes.

TYPICAL APPLICATION
HYREZ WR can be used in food processing plants, cold rooms, canning factories, bottling plants, foot traffic areas and environments where food safety, high chemical resistance, wet areas, and light industrial use are all prerequisites.

ADVANTAGES

- Economical
- High early strength
- Slight Flexibility
- High chemical resistance
- High density
- Nonhazardous (food safe)
- Seamless
- Impact resistance
- Low maintenance

WATCH POINTS

- While polyurethane screeds are chemically resistant, they can still stain and a sealer coat is recommended in areas where concentrated dyes, or foods or chemicals with staining history are exposed to the surface for long periods of time.
- A formal hygienic cleaning procedure is required to keep the surfaces hygienically clean and food safe.
- Polyurethane screeds are not UV stable and will yellow under bright lighting and sunlight.

DIRECTIONS FOR USE
Application Conditions:
Application temperature should be between 15C and 25C. Employ the use of localized cooling or heating equipment if necessary. Try avoid applying over hot surfaces or previously heated areas. Substrates must have a moisture content of 12% maximum and tensile strength of 1.5 N/mm2 minimum.

Surface Preparation:
Surfaces need to be cleaned and flattened, or imperfects will show through flow applied applications. Light grinding to remove all surface defects is recommended. Scabbling and acid etching is not recommended. Anchor grooves are not necessary for HYREZ WR.

Priming:
Prime with HYREZ PRIMER using a trowel or brush and allow to become tacky (1-2 hours) to form a good bond between the HYREZ WR and the substrate.

Application:
Shake well the resin component to resuspend all the pigments in the liquid. In a bucket, premix the resin and the hardener until mixed together. While mixing, add in the powder aggregate gradually until the desired thickness, then mix until all wetted out and lump free. Then transfer the mix onto the wall substrate. Using a wood trowel for placement and then steel trowel to smooth and close holes and lines. Only mix enough product that can be applied within 12-15 minutes. Allow to cure for 12 hours. Protect the curing floor from damp, condensation, and direct water for at least 24 hours.

Limitations: Do not apply in humidity is expected to be greater than 90% RH, or if the surface temperature is less than 3C above the dew point. Ensure that the curing temperature never drops below 5C, and do not apply over concrete that is less than 25 MPa compressive strength. Colour variations can occur between batches so apply sections from the same batch of resin. Touching up will always be visible and should be avoided. If necessary, overcoat the entire surface with HYREZ UVR coating in a similar colour.

TYPICAL PROPERTIES

Adhesion to Concrete >1.5 N/mm2
Shore D Hardness 55
Application Temp. 15C to 25C
Surface Finish Smooth matt
Application Thickness 0.5 – 0.8 mm
Pot Life 12-15 Minutes
Use Temperature -20C to 50C
Yield 5 Litres per kit
Coverage 6 – 8 m2 per litre
Time to Light Use 12 Hours
Time to Regular Use 24 Hours
Time to Chemical resist. 48 Hours

Full Chemical Resist. 7 Days

Equipment Care

All tools should be cleaned with thinners or xylene immediately after use.

Warranty
Masonry Cement Composites (PTY) Ltd products have a manufacturing defect free warranty. Products, when applied as stipulated in this technical datasheet, will perform as specified without manufacturing defect.
REVISION: 5.2