



HIR[®]
YOUR BUILDING MASTER



TECHNICAL DATA

HIR SHIELD WATERPROOFING



Aesthetic
Look



UV
Resistant



Strength



Waterproofing



Anti Crack



Self Curing



No Air
Bubble



Bonding



Breathable



Light Weight



DESCRIPTION

HIR SHIELD is white colour liquid waterproofing coat and can be customized as per choice. It form breathable membrane. Shiels is specially formulated to waterproof exterior wall and also provide aesthetic look.

FEATURES

- UV resistance and great white colour reflects heat, provide cooling effect on the construction
- Unmatched crack bridging ability due to elastomeric properties.
- Can be used for Internal walls, External walls
- Single pack easy to apply and simple re-coating.
- Dirt pick up resistance
- Low VOC, eco friendly
- Light weight

AREA OF APPLICATION

- Parapet, Sunshades and Exterior vertical walls.

APPLICATION OF HIR SHIELD

Surface should be perfectly cured, dry and hard. Uneven surface should be smoothen with suitable materials and finishing products.

SURFACE PREPARATION

- The surface for waterproofing application has to be clean with wire brush as that all loose particles and dust can be removed.
- Remove exiting paint or putty using suitable tools.
- Use Blower or Vacuum cleaner to remove fine dust.
- Identify the cracks if it is less then 3mm fill cracks with HIR CRACK LOCK and if more than 5mm make "V" shape groove using cutting machine and fill cracks using HIR SEALANT.
- Apply two coat of HIR DAMP X PRIMER as a waterproofing primer before applying HIR SHIELD

PREPARATION

HIR SHIELD is single component waterproofing system. No need to add water, use directly from the container just mix the material before use.

APPLICATION METHOD

- Apply first coat of HIR SHIELD using brush or roller in horizontal direction on vertical wall.
- After Drying of first coat Apply second coat of HIR SHIELD in vertical direction of wall.
- For enhanced protection, apply additional coat of HIR SHIELD on rain lashing walls, chajjas and parapet walls. Allow the coated surface to air cure fully for 7 days

In the case of low temperatures and high humidity levels the waiting period between the two coats will be 4-6 hours.

Coverage: 300 Sq.ft/10ltr/100microns/2Coats*

*Coverage may vary depending upon the texture and porosity of the surface

Pack: 10Ltr

Properties	Units	Standard	SHIELD
COLOR	-	ASTM D 1544	CUSTOM COLOR /Generally White
SPECIFIC GRAVITY	-	ASTM D 1475-98	1.155
VISCOSITY	CPS	ASTM D 1200-10	15
MIX RATIO	Parts By Weight	MANUAL	SINGLE
PH VALUE	-	ASTM D 1293	6.5
POT LIFE	MINS	IS 101	90
FUNCTIONAL CURE	HRS	ASTM D 1640	24
WATER ABSORPTION	%	ASTM D 570	0.2
WATER VAPOUR PERMEABILITY	G/M2/Day	ASTM E 96	10
WATER REPELLENCE	%	ASTM D 5401-93	90
VOC CONTENT	%	ASTM D 3960	NIL
TENSILE STRENGTH	N/MM2	ASTM D 412	5.8
ELONGATION AT BREAK	%	ASTM D 412	280
FLEXURAL STRENGTH	N/MM2	ASTM D 790	12
COMPRESSIVE STRENGTH	N/MM2	ASTM D 695	39
ADHESION STRENGTH	N/MM2	ASTM D 4541	2
CHLORIDE PERMEABILITY (REDUCTION)	%	ASTM C 1202	NEGLIGIBLE
HYDROSTATIC PRESSURE	BAR	ASTM C 1306	3
ABRASION RESISTANCE	MG/1000 Cycles	ASTM D 4213-08	10
MIGRATION TEST	PPM	IS 9845	7
TOXICITY	-	BS 6920-PART 1	NON TOXIC

NOTE:

- SURFACE TO BE APPLIED SHOULD BE MINIMUM 6 TO 8 WEEKS AGED (OLD).
- Shake well before use.
- Recommended to be primed with HIR DAAMP X PRIMER only.
- Do not add water, or other additive can affect the final result.
- Do not apply during rains or in extreme temperature.
- Keep the container tightly closed to prevent drying.

Safety and Precaution:

- Always wear safety gear while handling of any chemical products.
- Wash skin with soap & water after coming in contact with skin.
- Immediately splash eyes with plenty of water. Consult Physician if irritation persists.
- Keep out of reach of children..