Technical Data Sheet

HYDROCRYL 300

Flexible Acrylic Based Waterproofing Membrane

Description:

HYDROCRLY 300 is an elastomeric single component liquid applied waterproofing membrane based on aliphatic acrylic resins for elastic and durable features. HYDROCRYL 300 has excellent adhesion to most substrates including concrete, plaster, masonry, and metal surfaces.

The membrane formed by application of HYDROCRYL 300 is resistant to ultra violet rays. This allows the product to perform perfectly in direct sun light. Therefore it can be applied to building roofs, hanger roofs, factories, stores and metal sheds.

Applications:

- External water proofing of roofs, hangers, factories on top of concrete or metal or old bituminous water proofing layer.
- Water proofing and reflective layer for metal made sheds and hangers.
- Water proofing and reflective coating to reduce greenhouse effect for farm houses, poultry hangers, and livestock areas.
- Top coat layer in the roofing system comprised of PU foam and water proofing membrane.
- Water proofing and reflective in addition to movement accommodation layer for cold stores, both roof and walls.
- Can be applied as a top coat to EIFS system to ensure proper waterproofing in addition to extra thermal reduction to the system.

Advantages:

- High build, odorless liquid applied membrane in single application.
- Can be manufactured according to specified colors
- Semi-gloss, has reflective features to reduce heating and reflect direct sun light.
- Highly flexible to be applied where movement is expected.

Instructions for Use:

Surface Preparation:
All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance, curing compounds, dirt, oil and grease. Ensure that concrete is cured for at least 28 days.

For application:
- Over bituminous membranes on roofs, ensure the membrane is clean, free from contaminants and has no de-bonding blisters.
- On top of concrete surface, it is recommended to perform proper cleaning of the substrate to ensure it is free from contaminants and curing compound residue.
- On top of Polyurethane foam, ensure that the surface of the foam is clean, free of dust or contamination. If the PU foam was shaved to slope, ensure the surface is clean without residual before applying HYDROCRYL 300.
- Over steel surfaces, it is recommended to prepare the steel by mechanical means or blasting to ensure proper adhesion.

Mixing:
HYDROCRYL 300 is a ready to use single component product. To ensure full homogenous mix, shake the pail while closed or mix slowly for 3-5 minutes using a paddle with slow speed drill till a homogenous mix is reached. Leave the mixed material for a period of 2 minutes to release the entrapped air within the mix before application.

Application:
HYDROCRYL 300 can be applied with a roller, trowel, brush or spray machine. It is recommended to apply two coats in case of roller or brush applications. Apply rich coat to the surface in a spread rate of 5.0 square meter /liter /coat. Subsequent coats to be applied to the first coat with same rate of application preferably in 90 degree application. Minimum two coats are required, with a thickness of 400 microns to achieve good results.

HYDROCRYL 300

HYDROCRYL 300 should not be applied on surfaces with a risk of rising dampness. Be aware that all Water test should be run after 14 days of material application to allow the membrane to be fully cured. Additional coat of product should be applied around penetrations such as pipes and conduits to ensure proper sealing and waterproofing features.

In applications where movement and foot traffic is expected over the roof, it is recommended to embed a fiber glass mesh in the first coat while fresh. Apply the second coat to cover the mesh fully and ensure proper thickness of material applied.

For porous substrate, or in a very hot climate, it is recommended to apply the first coat of HYDROCRYL 300 diluted with 20% of water.

Standards:

HYDROCRYL 300 conforms to:

- ASTM D624, ASTM D822

Packaging:

Available in 20 kg. plastic pails.

Storage:

Store in original packing in dry conditions away from direct sunlight and high humidity levels.

Coverage:

Achieves coverage of 2 square meter/liter @ 500 micron wet film thickness, achieving 300 micron Dry film thickness

TECHNICAL PROPERTIES		
Color	:	Grey, White
Density	:	1.25 Kg/m³
Pot life	:	50 minutes @ 25ºC
Solid Contents		55%
Touch dry	:	8 hours
Adhesion to concrete	:	1.0 N/mm²
Shore A hardness	:	30
UV resistance	:	No Effect
Tensile strength	:	12.0 N/mm²
Elongation	:	Above 300 %
Water penetration	:	NIL
Service Temp.	:	-10 to 60°C
Chemical Resist.	:	Resistant to diluted acids, detergent, oil.
Crack Bridging	:	2.5 mm
Water Resistance	:	1.5 Bar

Cleaning:

Clean all tools with water before product hardens.

Shelf Life:

12 months of production date if stored in proper conditions in unopened original packing.

Health and Safety:

- Use goggles and gloves during application. Do not breathe vapor of products. Use only in well ventilated areas
- Avoid contact with eyes or skin.
- In case of eye contact, flush thoroughly with plenty of water and seek immediate medical

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