



Build Your Tomorrow
With Harwal Polyurethane

Harwal Polyurethane SPRAY ROOF SYSTEM

Company Profile

IP Harwal Polymer, a division of Interplast Group. Specializes in the manufacture of plastic compounds, recycled polyols from PU / PET / PA waste, and customized blending products such as rigid polyurethane systems to cater to the demands of a growing insulation industry.

Marketed under the brand name Harwal Polyurethane, our rigid polyurethane systems have great insulation and flame-retardant properties. IP Harwal Systems are widely used in insulated panels and further developed with various blowing agents for roof spray insulation. Our high quality Polyurethane systems are well recognized through various certifications.

IP Harwal Polymer has established a regional alliance with global experts and built a multi-functional plant producing PET/PA/PU based polyester polyols. Our multi-functional blending and polyol manufacturing facility in DIP (Dubai Investment Park) guarantees high quality polyurethane products, increases customer benefits, reduces PET and PU waste and help to conserve energy. With a comprehensive product portfolio and a production capacity of 40,000 tons per year IP Harwal Polymer is the preferred supplier of choice for customers in rigid polyurethane industry.

Interplast, a key member of the reputed Harwal Group is a leading manufacturer of plastic resins, plastic compounds catering to different applications such as pipes, fittings, cable insulation, rigid, flexible profiles and more.

Since its commencement in 1981, the company has diversified from conversion of PVC compounds to manufacturing uPVC Conduits, Trunking, Fittings, Switches, Sockets under the brand names DECODUCT, EDISON. Our building materials division produces ALUPEX, a range of Non-Combustible Aluminium Composite Panels.

The DECOPACK & DECOFORM range consist of a wide range of industrial and commercial films, bags, flexible packaging, and thermoformed products which are currently exported to over 50 countries across the globe.

Our manufacturing facilities in the UAE can extrude over 33,000 MT of UPVC resin and over 50,000 MT of injection products per annum, making it one of the largest manufacturing facilities in the region.



Product Info



**SPRAY POLYURETHANE
FOAM SYSTEMS**



**DISCONTINUOUS PANEL
SYSTEMS - COLD STORES**



**DISCONTINUOUS PANEL
SYSTEMS - REFRIGERATED
TRUCKS**



**REFRIGERATORS,
WATER HEATERS &
COOLERS, BLOW &
ROTO MOLDS**



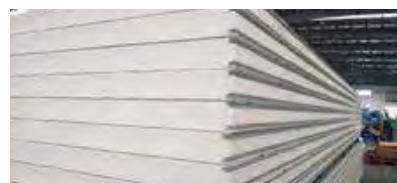
**CONTINUOUS /
DISCONTINUOUS PIR
BLOCK FOAM SYSTEMS**



**THERMO-WARE &
ICE BOXES &
CASSEROLE**



**CONTINUOUS PUR B3
PANEL SYSTEMS**



**CONTINUOUS PIR
PANEL SYSTEMS**



PIPE IN PIPE SYSTEMS



**ADHESIVES -
ROCKWOOL / PIR GLUE
SYSTEMS**



**AROMATIC
POLYESTER POLYOLS**

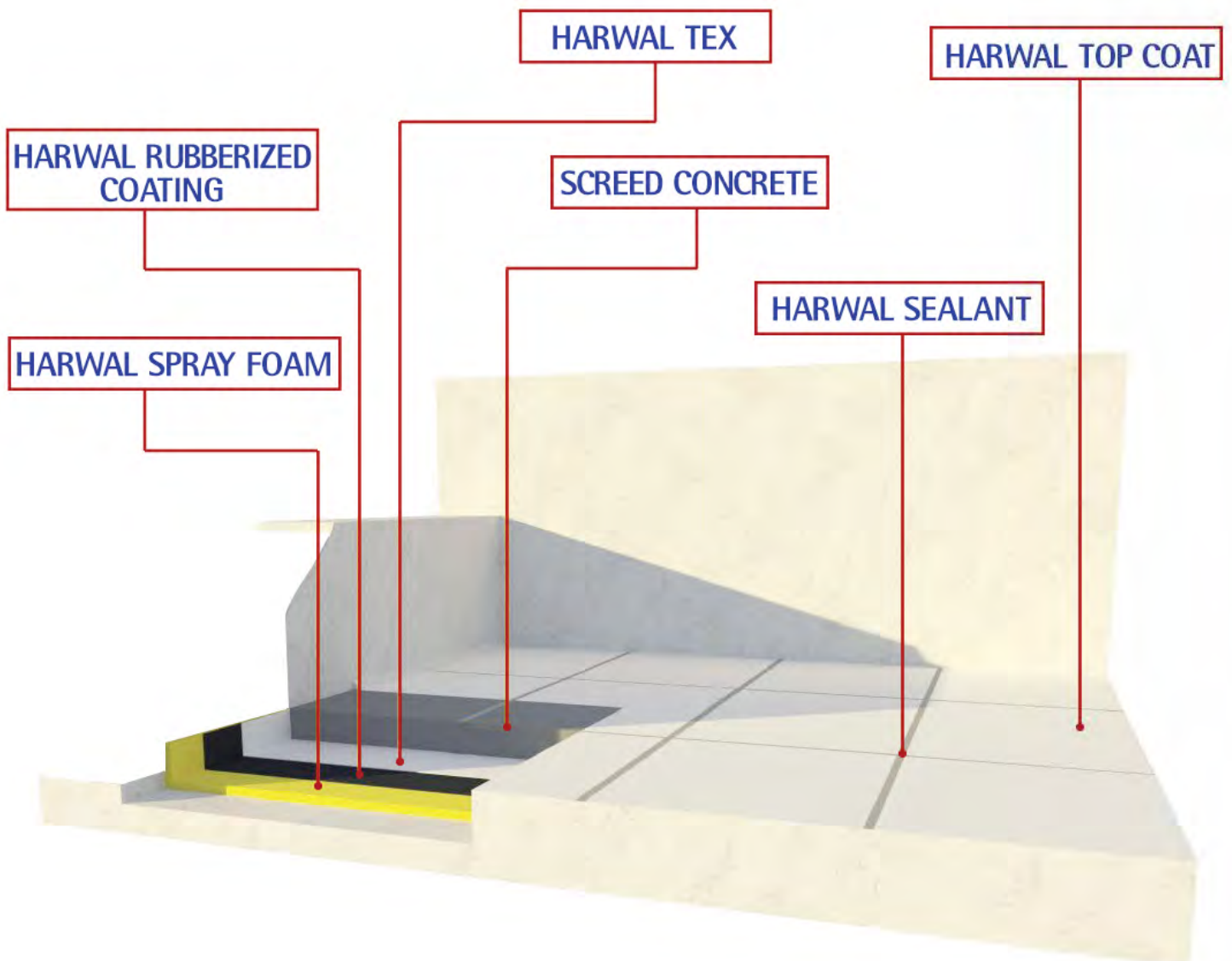


**PRODUCTION
ACCESSORIES**

HP Spray Roof System

HP spray roof System deals with the combination of Waterproofing, thermal insulation and finishing of roof. It is a comprehensive system which can be in a fastest way to insulate and waterproof the entire roof area. The life of the building could very much depend on the quality and integrity of the roof. The ability of a roof to perform effectively on a long-term basis depends on the quality of material, design of the roofing system and quality of workmanship.

The extreme heat in the Middle East demands excellent insulation to prevent energy wastage. The Modern Combo Roofing System does just that, with a saving of over 40% in energy. It also provides for a perfect waterproofing thus making it the ideal and cost-effective system



HARWAL Spray Foam

Product Series	Spray Polyurethane Foam Systems HP-SP 3000 series	
Product Series Description	HPSP series are Spray Polyurethane Rigid foam systems with blowing agent HCFC (141b) & water. The HPSP series is widely used in the insulation markets due to its good adhesive strength, K-factor and dimensional stability when they react with pMDI. This system quickly solidifies by spraying and has enough rigidity to bear the weight of the worker.	
Product Series Specification	Core Density : 40-55 kg/m ³ Dimensional Stability (-20 °C, 48hr) : ≤ 1.0 %	Compressive Strength : ≥150 kPa 35°C k-factor : ≤ 22.00 mW/(m*K)
Product Series Benefits	<ul style="list-style-type: none"> ■ Excellent storage stability ■ Good process operationality and flowability ■ Superb insulating performance ■ Good fire properties ■ Excellent compressive strength and dimensional stability 	

Typical Formula	Spray System HPSP3040	Water Based Spray HP-SP-W-3040	Water Based Low Density HP-SP-3040(WLD)	Spray PIR HP-SP-PIR-3040(B2)	Open Cell Foam HP-SPWOC-3040
Property					
Viscosity at 25°C cps	200 ± 50	350 ± 50	350 ± 50	200 ± 50	500 ± 50
Water Content (%)	1.00 ± 0.10	1.50 ± 0.20	1.80 ± 0.10	Nil	17.7 ± 0.10
Machine Mix Reactivity					
Component Temperature, 0°C	35	35	35	35	35
ISO/Blended Polyol	100/100	100/100	100/100 (1:1.1)	100/100	100/100
Cream Time, sec	<5	<5	<5	<5	<5
Gel Time, sec	<10	<12	<10	<10	<10
Free Rise Density` kg/m ³	30 ± 1.0	40 ± 2.0	32 ± 1.0	38 ± 2.0	10 ± 2.0
Typical Physical Properties					
Core Density (kg/m ³)	45 ± 2.0	53 ± 2.0	45 ± 2.0	55 ± 2.0	10 ± 2.0
Compressive Strength (kPa)	250 ± 50	300 ± 50	250 ± 50	300 ± 50	--
Dimensional Stability (-30°C, 48hr), %	<1	<1	<1	<1	<3.8
@23 °C Thermal Conductivity (mW/m.K)	21.0 ± 0.50	25.0 ± 0.50	25.0 ± 0.50	21.0 ± 0.50	26.0 ± 0.50
Flammability	B3	B3	B3	B2	B3
R Value (m ² K/W)	50 mm	2.294	2.000	2.000	1.667
	100 mm	4.587	4.000	4.000	3.333

Harwal RBE 300

(Rubberized coating)

HARWAL RBE 300 is a bituminous emulsion and waterproof reinforced with rubber. It has excellent adhesion property which dries to a highly elastic, tough, black seamless flexible protective coating. It's a single component dark brown liquid.

BENEFITS :

- Environmentally friendly, non-flammable, asbestos free and can be used in confined places.
- Cost saving material, which can be used as a waterproofing and curing compound in a single application.
- Labor saving single component material which is also water based and therefore non-toxic.
- Highly effective vapor seal.
- Resist the attack of chemicals and salts



Harwal Tex

High performance, needle punched, non-woven 100-120 gsm Geo-textile fabric. Geo-textile fabric is a high performance polymeric non-woven stable fibre based on polyester with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier.



Harwal Sealant

HARWAL MASTIC acrylic flexible filler is a non-staining, white sealant that resists cracking and gives a smooth finish that requires no sanding.

HARWAL PU SEALANT is moisture-curing, single component polyurethane, non-sag elastomeric sealant. It is highly resilient and has excellent recovery characteristics. It can function under wide range of temperatures.



HARWAL Top Coat

Harwal Acrylic / Harwal PU / Harwal Acrylic cement

HARWAL TOP COAT is a reflective, cool, high performance elastomeric polyurethane coating. The product is a liquid applied, two component, polyurethane coating. HARWAL PU TOP COAT is designed to provide a combination of superb adhesion to a variety of substrates and a balance of high elongation and high tensile strength.



HARWAL ACRYLIC COAT is a special Acrylic resin based water proof coating. Single back because of its excellent flexibility and thixotropic nature is an ideal for use on horizontal as well as vertical surfaces. It is crack bridging forms tough, flexible, durable weather resistant, solar reflective, UV resistance membrane very economical and pollution free waterproof coating.



HARWAL CEMENT ACRYLIC COAT is a two components acrylic modified cementitious coating that requires only on-site mixing to form the ideal product to waterproof and resurface concrete, masonry and most other construction materials.

HARWAL cement acrylic coat provides an effective barrier to waterborne salts and atmospheric gases. Fluid applied HARWAL cement acrylic coat provides a hard touch seamless, waterproof membrane for Roof's and foundation protection.





SPRAY ROOF SYSTEM

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