



— Delivering Professional Services Through Dedicated Teams —
Focused On Assisting Valued Clients

www.zyrexchemicals.com

WELCOME



WHO WE ARE?

Manufacturing all construction-related chemicals. Enhance the strength, durability, and look of your High Rise Buildings, Shopping Malls, Roads, Highways, Airports, Dams and Flyovers etc. By using our Chemicals, your facilities are bound to be protected from all typical construction-related problems such as water leakages, seepage, wall cracks, floor cracks, concrete breakdown in walls, etc.



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About Us

We would like to take this opportunity to introduce our company. **“ZYREX CHEMICALS PVT. LTD”**.

Zyrex Chemicals Company is the sister concern company of Pakistan Phthalates LTD which was established in 1987 in Islamabad. Pakistan phthalates had been involved in the manufacturing of binders (PVA & Acrylics). We had successfully provided raw materials for paints to Pakistan Paint Manufacturers in Lahore, Karachi, and Faisalabad. Among these local paint manufacturers, our clients encompassed ICI Paints, Nippon Paints, and at times Berger Paints (Buxly Paints).



Based on the decision of the company to diversify our manufacturing activities; we have established this company (**Zyrex Chemicals**) as a manufacturer of finish products of construction chemicals. We are specialized in manufacturing all construction-related chemicals which are used to enhance the strength, durability, and look of your High Rise Buildings, Shopping Malls, Roads, Highways, Airports, Dams Flyovers etc. By using our Chemicals, your facilities are bound to be protected from all typical construction-related problems such as water leakages, seepage, wall cracks, floor cracks, concrete breakdown in walls, etc. When our products are applied, your building's strength and durability increase without putting an extra burden on your budget.

Our wide range of products includes Admixtures & Surface Treatments, Grouts, and Anchors, Waterproofing Materials, Industrial Floorings, Concrete Repairs, Protective Coatings, and Joint Sealants. Usually manufacturing companies do not take responsibility for application but along with our Products, We also provide expert service through support teams committed to serving valued customers throughout our regions. Our team members are well-trained to be experts in solving all problems, needs, and concerns while meeting international standards.



To provide quality services that exceeds the expectations of our esteemed customers.

To build long term relationships with our customers and clients and provide professional customer services by pursuing business through innovation and advanced technology.

To provide quality construction chemicals products that exceed our esteemed customers' expectations.

Manufacturing and providing primary raw material for paints i.e. Acrylics and PVA. We also manufacture finished paint products, and polymers for waterproofing & admixtures of concrete.



WE ARE PROFESSIONAL



WE ARE TRUSTED



WE ARE EXPERT

10+
Awards
&
Recognitions

1,000+
Clients

1,000+
Projects

50+
Team

OUR SERVICES

✓ WATER PROOFING

- Elastomeric Coatings
 - Cementitious Coatings
-

✓ HEAT INSULATION

✓ PAINT (INTERIOR & EXTERIOR)

✓ EPOXY FLOORING

✓ EPOXY GROUT

✓ CONSTRUCTION CHEMICALS

WATER PROOFING

Elastomeric Coatings:

Elastomeric coating is a single component exterior wall or roof coating that is approximately ten times thicker than normal coating and flexible too. It helps waterproof the exterior surface of the structure.



Process:

- ✓ Cleaning of the surface.
- ✓ Crack Filling with ZK-007 Plasticized Chemical.
- ✓ Application of Primer Coat.
- ✓ Application of 3 Coats of Elastomeric coating

Data Sheet:

Water Proofing Concrete Sealer

ZK-70 is a single component elastomeric ter-polymer modified pigmented coating; the action of which is to block the capillaries and pores in concrete and mortar. It is durable, flexible and has a high level of resistance to weathering agents like UV rays, sunlight, frost, dampness & sulfate salts etc. It is also an effective barrier to water born salts and atmospheric pressures at D.P.C. Levels

Application:

- Can be applied to all structurally sound concrete, new or old
- Can be used on most types of roofs as well as basements applications.
- As a protective membrane for polyurethane foam installation.
- Can be used to protect exposed reinforced concrete from carbonation and chloride attack.
- Can be used at D.P.C. level to block water by capillary action seepages

Characteristics:

- Single component
- Tri polymeric plasticized structure
- High elasticity
- Very durable and flexible
- Excellent resistance to weathering agents like UV rays, Sunlight and rain
- Excellent for blocking of basement dampness
- Unlike Membrane polymers address constant movement and vibration
- Penetrates into concrete
- Permanently active
- Self-seals shrinkage cracks up to 1/64" (0.4 mm)

Technical Data & Properties:

- Standard conforms: BS476-3
- Appearance: White pigmented liquid
- Density: 1.2 gm/cc
- Solid contents: 45% \pm 2 % by weight
- Elongation of break: 300-400%
- Toxicity: Non toxic
- Application Temperatures: 10°C to 50°C
- Service Temperature 50°C to 90°C
- Resistant to acids alcohol petrol UV carbonation chloride ion diffusion

Dosage:

- First coat can be thinned down with Water with ratio of 50:50, the rest three coats should be applied without thinning.

Packing: 16 Liters/Bucket, 4 Liters/Gal

ELASTOMERIC COATINGS





CLEANING OF THE SURFACE



**CRACK FILLING WITH ZK-007
PLASTICIZED CHEMICAL**

ELASTOMERIC COATINGS



SAND BLASTING



SAND BLASTING

**SCARIFYING****SCARIFYING**

ELASTOMERIC COATINGS

**APPLICATION OF PRIMER COAT****APPLICATION OF 3 COATS OF ELASTOMERIC COATING**

WATER PROOFING

Cementitious Coatings

ZK 105 Cementitious Coating is two-part Polymeric modified cementitious liquid applied waterproofing coating system. It comprises of a liquid polymer and cement-based polymer modified fiber reinforced special admixtures. It is applied to concrete and mortar to prevent water in-filtration.



Uses:

- ✓ Interior and exterior waterproofing and damp-proofing of concrete.
- ✓ Rigid waterproofing of water tanks, bathrooms terraces and concrete roofs
Sealing fine hairline cracks of concrete.
- ✓ Sealing internal basement walls against dampness.

Data Sheet:

PAK-SEAL ZK-105

TWO PACK POLYMER MODIFIED CEMENTITIOUS WATERPROOFING SLURRY AND PROTECTIVE COATING

DESCRIPTION

PAK-SEAL -105 is a two-part Elastomeric polymer modified cementitious liquid applied waterproofing coating system. It comprises of a liquid polymer and a cement-based polymer modified fiber reinforced special admixtures. It is applied to concrete and mortar to prevent water in- filtration.

USES

- Interior and exterior waterproofing and damp-proofing of concrete, cementitious rendering, brickwork and blockwork
- Rigid waterproofing of water tanks, bathrooms, toilets, etc.
- Sealing fine "hairline" cracks in concrete structures
- Sealing internal basement walls against dampness

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be structurally sound and free of all traces of contaminants, loose and friable particles, cement laitance, oils and grease etc.

General

The substrate must be prepared by suitable mechanical preparation techniques

Following Necessary steps are required to provide the total solution to the problem.

1. Removal of all the second phase particles
2. Chipping off all the loose material from the substrate to make it virgin.
3. Substrate to be thoroughly brushed and grinded off to unveil hair cracks and cavities.
4. Filling of the hair cracks and joints.
5. Application of One coat of Primer PP-100
6. Application of Two coats of PAK-SEAL PP-105



PRODUCT INFORMATION

Chemical Base	Part A: Elastomeric Polymer & Additive Part B: Cement with selected Polymers and fibers	
Appearance/ Color	Part A: White Liquid Part B : Grey Powder	
Compressive Strength	3 days	≥ 2 N/mm ² (ASTM C 109)
	28 days	≥ 20 N/mm ²
	At temperature +27°C	
TensileStrength	≥ 4.5 N/mm ² after 14 days exposure	(ASTM D 2370)
Elongation at Break	~ 8-10%	(ASTM D2370)
Tensile Adhesion Strength	≥ 2 N/mm ² (Concrete Failure)	(ASTM C 882)
Layer Thickness	Up to 1.0 mm average thickness	



CEMENTITIOUS COATINGS



HEAT INSULATION SERVICE

Formulation Of PU:

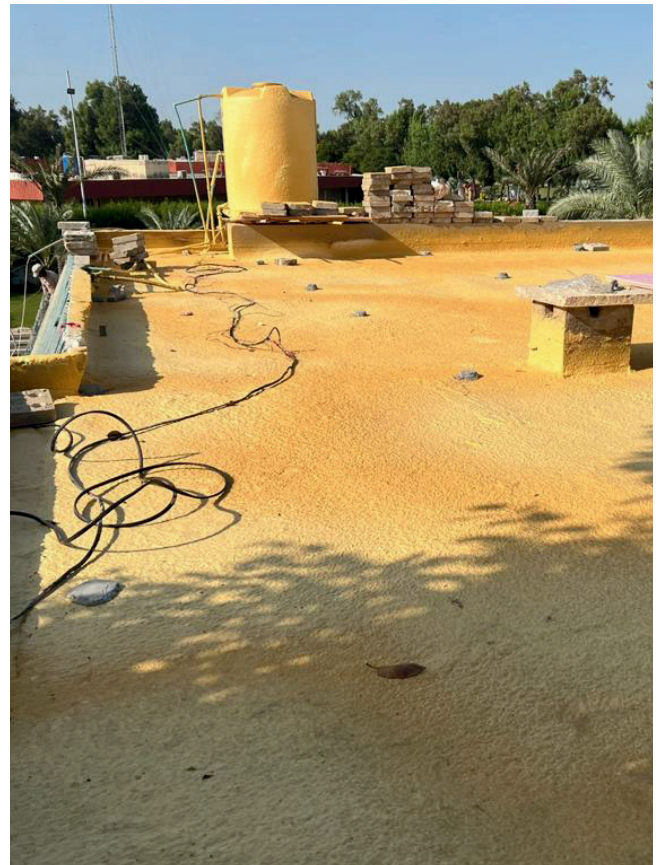
- ✓ MDI (Methylene Diphenyl Diisocyanate)
- ✓ Polyol

Why PU is Recommended?

- ✓ Joint Less
- ✓ Best filler for cracks
- ✓ Sound Proof
- ✓ R-value is 6.67 per Inch
- ✓ Five to Twenty Degrees temperature difference depends upon PU thickness



HEAT INSULATION



ISOEXTER V427-S

General description and applications

It is a polyol Pre- blended with HFC 365/227 and Methylal as a blowing agent designed for long time insulation of ceilings and walls by spraying technology because it provides good ageing insulation. Isoexter V427-S reacts with Isocom L (polymeric MDI) to give a foam meeting class B2 according to DIN4102 standard. The applied foam density is low but it can vary according to the numbers of layers and their thickness, atmospheric conditions and type of application (vertical or horizontal). To get a good foam adhesion the surface to be dry, not at too low temperature, cleaned from oil and dust etc.

Chemical-physical characteristics

Parameter	Value	Unit of measure	Method
Appearance*	Viscous	liquid	MA 001 LCP
Colour*	Yellow-brown		Visual
Viscosity at 25 °C*	170	mPa.s	MA 041 LCP
Specific gravity at 20 °C	1.14	mPa.s	MA 181 LI

* Parameters under control

The information presented herein are based on our experience and indicate our best results. We cannot be held liable for the results obtained with our products and for any loss or accident that may result from the use . We suggest to verify our suggestions at the customer's lab. The suggested data must not be considered like specific of sale.

Mixing ratio

Isoexter V427-S	at 20-25 °C	100 pbv
Isocom L	at 20-25 °C	100 pbv

Cup test at 20 °C

Parameter	Value	Unit of measure
Cream time	2-3	Sec.
Gel time	6-7	Sec.
Free rise density	30-32	kg/m ³

Foam properties

Parameter						Method
Dimensional stability	Length	Height	Thickness	Core kg/m ³	Density	UNI 8069
% var. after 48 hrs at -25 °C	-0.40	-0.57	+ 0.46	35.5		
% var. after 48 hrs at +70 °C 90% U.R.	-1.20	-1.10	+1.24	36.3		
Core Density after 48 hrs at 25c		35 +/-3 kg/m ³				UNI 8069
Closed cells correct value		95 %				ASTM D 2856
Compressive strength 10% parallel to rise		180 KPa				UNI 6350-1968
Water Absorption in %by volume		0.82				ASTM D 2842
Flame resistance		B2				DIN 4102
Thermal conductivity 10 °C		20.0 mW/mK				ASTM C 518

Storage

Sealed drums at room temperature for 6 months.

Note

The above information's are based on our present technical knowledge and experience, but it cannot be considered as warranty to fully meet application parameters without optimisation.

Test methods

Test methods (MA) referred to in the chemical-physical characteristics are available on request.



HEAT INSULATION



PAINT INTERIOR & EXTERIOR)

Interior Paint:

- ✓ Wall Putty
- ✓ Super Emulsion
- ✓ Plastic Emulsion
- ✓ Stain Free

Exterior Paint:

- ✓ 1. Exterior Wall Putty
- ✓ 2. Weather Shield



HEAT INSULATION





ANTI FUNGAL PAINT



FIRE RETARDANT PAINT

PAINT (INTERIOR & EXTERIOR)



EPOXY FLOORING

What is Epoxy?

Combination of two components

- ✓ Resin
- ✓ Hardener

Benefits of Epoxy Flooring:

- ✓ Durable and resistant
- ✓ Joint less
- ✓ Resistant to chemicals
- ✓ Fast application
- ✓ Attractive floorsurface
- ✓ Easy to clean

Recommended thickness

- ✓ For coating up to 300 to 500 microns
- ✓ For Flooring 1mm to 3mm



EPOXY FLOORING





EPOXY FLOORING



EPOXY FLOORING

EPOXY MODIFIED GROUT



EPOXY GROUT



EPOXY GROUT

CONSTRUCTION CHEMICAL

ZK-30

- ✓ ZK-30 Is super plasticizer which helps to fill capillaries and hair cracks in concrete.
- ✓ It is also used to enhance the strength of concrete.



CONSTRUCTION CHEMICAL





CONSTRUCTION CHEMICAL



OUR NOTABLE PROJECTS



CENTAURUS MALL



GRAND HYATT



SAFA GOLD MALL



GAMBAT INSTITUTE OF MEDICAL SCIENCES

OUR CLIENTS





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ZYREX

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