

## UV System

# THE First Integrated

PPR piping system for outdoor applications



RAKtherm Anti-UV Fittings that will complete the entire selection of anti-UV piping systems



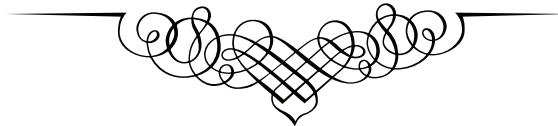
RAKtherm Anti-UV Pipes Integrated with special technology of black layer for anti-UV resistance



With widest range of fittings and accessories to ensure modified strength of connections



" COMMIT TO DELIVER  
THE ULTIMATE  
PIPING  
SOLUTIONS  
WITH THE LATEST  
INNOVATION  
TECHNOLOGY  
TO BE PRIDE  
OF THE INDUSTRY  
FROM  
RAK THERM  
TO WORLDWIDE. "





# OUR Profile

we provide most important international products in the fields of heat pipes, plumbing installations, sanitation fixtures and contracting

contact us:

Tel: 00966126930142

Fax: 00966126930142

Email: [info@almujahidest.com](mailto:info@almujahidest.com)

[www.almujahidest.com](http://www.almujahidest.com)



MUJAHID TRADING



## ABOUT RAKtherm:

RAKtherm is a division of Tahweel Industry; is the pioneer and global hi-tech manufacturer of PPR, PEX, and REINFORCE piping systems. RAKtherm is the longest lasting piping system, bringing the most comprehensive piping solutions for diverse water applications using the latest German innovation technology. Tested, conformed, qualified, and certified by DVGW, SKZ, HY, and TUV; it has passed the quality assurance and quality performance tests that guarantee it is suitable for global distribution and utilization. With state of the art manufacturing facility equipped with German engineering machineries. We have supported major infrastructure projects through a network of business partners in 35 countries worldwide across Europe, GCC, East Asia, and North and South Africa.

## The Safest and Longest Lasting Piping Solution for Outdoor Applications

We have carefully blended and formulated our own PP-R 80 resins (polypropylene-random), integrated with special technology of black anti-UV layer for higher resistance against UV sunlight. Absolutely free from heavy metals and toxic chemicals; proven to be non-toxic and chemically stable even at elevated temperature. This is the safest piping solution in the market excellent for outdoor applications of hot and cold water applications.

PP-R 80 engineered with black anti-UV layer, is a material with excellent chemical resistance which does not react to most chemicals, with non-corrosive properties, proven to be physiologically and micro-biologically harmless.

## Engineered for Higher Level of Piping Solution

**RAKtherm anti-UV pipes and fittings** is an ideal solution!

PP-R 80 is engineered with black anti-UV component were developed to withstand hot and cold water applications under extreme temperatures of 5°C to 90°C at service life of minimum 50 years. Therefore, RAKtherm anti-UV system is a superior piping solution for hot and cold water outdoor installations. The anti-UV black technology for lower linear expansion rate and contraction, that remains physically stable under controlled expansion.



## RAKtherm piping systems are also used in:

- Potable installations inside houses, high rise buildings, hotels, hospitals and virtually all types of commercial and residential buildings.
- Factories with high-pressure water and compressed air circuits.
- Rain drainage and collection systems.
- Indoor and outdoor swimming pools, gyms and their water filtration circuits and water installations.
- Piping networks for all types of irrigation and agriculture applications and pressurized networks.
- Connections from municipality mains to the tanks and reservoirs.
- Boilers and radiator connections and networks.
- Risers for water delivery, ventilation, and pressure relief.
- Water transport from pumps to upper tanks and distribution points.
- Connections through meters, and distributor manifolds.
- Distributions inside flats, apartments, houses etc...
- Underfloor network distribution and underfloor heating networks.



## RAKtherm UV System

### The First PPR piping system integrated with anti-UV technology

RAKtherm is versatile and comprehensive piping systems for water and other fluid delivery applications used for pressurized hot and cold water in modern residential, commercial, and industrial piping installations. The creative solutions delivered by RAKtherm towards its' products makes them the global leader in the construction industry. RAKtherm has proven its' high resilience even at the most extreme conditions; these factors and more makes RAKtherm as the ideal system for delivery of potable hot and cold water. RAKtherm pipes and fittings are extensively used in food and medical industries owing to its' harmless and safe properties. We came up to the new generation pipes to serve the continuous development and meet the demand of the construction industry.

**RAKtherm is a specialist in high-quality performance driven products that comprises a product range of:**

**RAKtherm PPR (Polypropylene) Piping Systems:**

- PPR pipes – PN10, PN16, PN20, and PN25
- Sizes from 20mm up to 110mm
- With widest range of brass fittings in sizes from 20mm up to 110mm
- Various accessories for PPR piping systems.

**RAKtherm PEX (Cross linked Polyethylene) Piping Systems:**

- PEX pipes, sizes from 16mm to 32mm
- PEX Aluminum Composite pipes, sizes from 16mm to 32mm
- With widest range of brass fittings for PEX, from sizes 16mm to 32mm
- Various accessories for PEX systems

**The New Generation REINFORCED Piping Systems by RAKtherm**

- RAKtherm Reinforced Fiber piping systems
- RAKtherm Reinforced Fiber-UV piping systems

**RAKtherm Anti-UV Piping Systems:**

- RAKtherm anti-UV pipes – PN20 and PN25. Sizes from 20mm up to 110mm
- RAKtherm anti-UV fittings – sizes from 20mm up to 110mm



## The Creation of RAKtherm anti-UV Fittings will complete the Entire Selection of anti-UV Piping Systems!

With our expertise, we have mastered the pipe network analysis through comprehensive research and development to bring modern piping approach through innovation.

**RAKtherm is a client-focused industry, and knowing the requirements of customers is imperative for us.**

Modernization and technological globalization have redefined the piping industry; and RAKtherm utilizes its' technical expertise to provide a more comprehensive and knowledge dominant piping solutions giving a great contribution on the technological development in the piping history.

The creation of RAKtherm anti-UV fittings came up to supply the demand for outdoor piping applications; this will complete the entire selection of anti-UV piping systems of the industry. And now, RAKtherm has introduced one of the very first integrated full systems with anti-UV protection for fittings. It will administer a full network of anti-UV pipes integrated with anti-UV fittings for maximum outdoor piping performance.

Our influential approach which redefined the piping service performance has initiated towards new level of excellence setting the highest standard of credibility and authenticity.



## RAKtherm anti-UV Pipes and Fittings are Engineered for:

The reinforcement of special technology of aluminum black layer on pipes for anti-UV resistance properties excellent for outdoor applications.

- The revolutionary black component reduces expansion and contraction for longer piping service performance.
- To be mechanically stable even under extreme temperature conditions.
- A fully integrated piping network designed for maximum anti-UV resistance caused by the bad effects of UV sunlight.
- The longest-lasting piping solution with anti-UV properties available in the piping global market.

### Features of RAKtherm anti-UV Pipes:

- 75% decreased linear expansion compared with the traditional piping systems.
- 20% increased higher flow rate for extra performance.
- Superior performance even at extreme applications.
- Ultimate impact strength for all installation conditions.
- Exceptional UV resistance for diverse water applications.
- Zero oxygen infiltration.

### Features of RAKtherm anti-UV Fittings:

- No weak area of the piping applications will be affected by sunlight.
- The welding process is easy, the same with the normal PPR fittings.
- Protection life for more than 15 years.
- Tested, conformed, approved, and certified by German laboratory testing agencies.
- RAKtherm is the very first and the only manufacturer of anti-UV fittings that has been registered in German laboratory.



NOTES :



A series of horizontal dotted lines for taking notes.

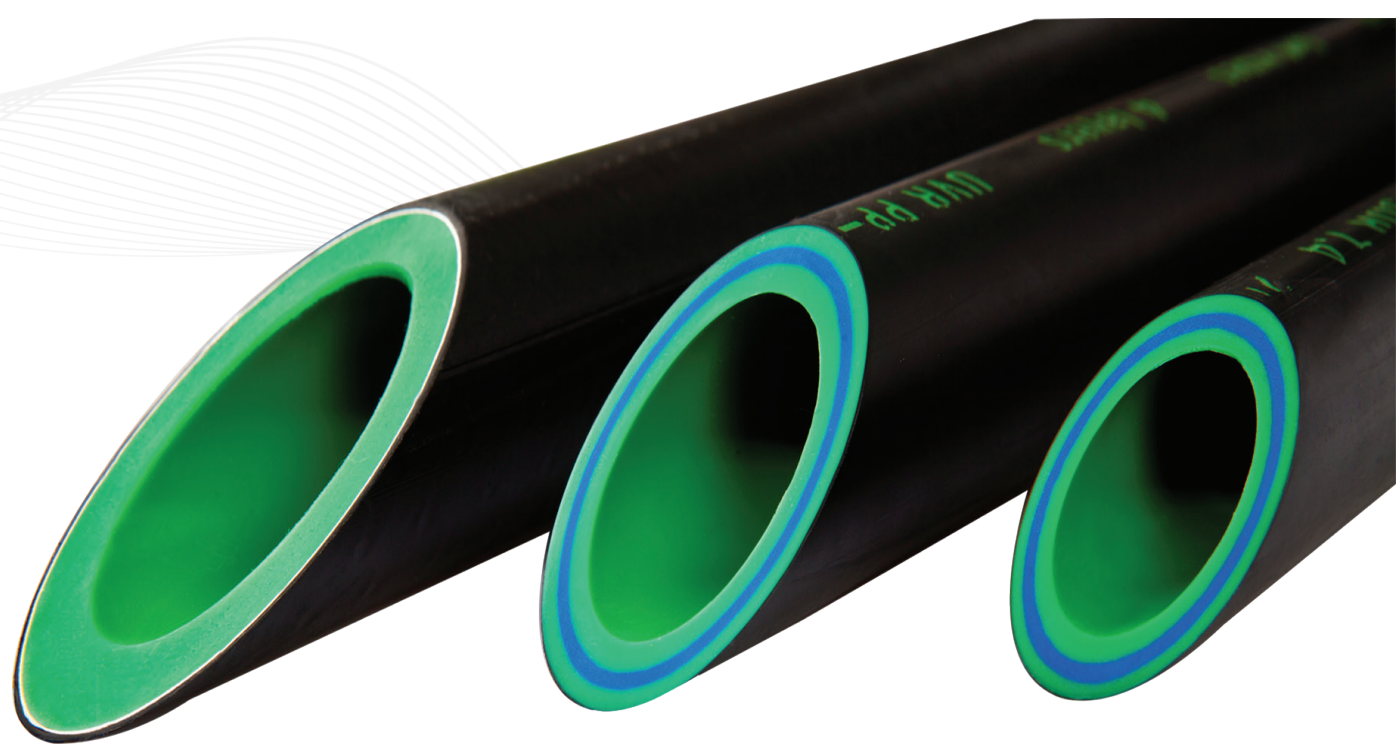
RAKtherm Anti-UV Fittings that will complete the entire selection of anti-UV piping systems

RAKtherm Anti-UV Pipes Integrated with special technology of black layer for anti-UV resistance

With widest range of fittings and accessories to ensure modified strength of connections







## **UV SYSTEM**

# **THE FIRST INTEGRATED**

## PPR PIPING SYSTEM FOR OUTDOOR APPLICATIONS

11

RAKtherm Anti-UV Fittings that will complete the entire selection of anti-UV piping systems

RAKtherm Anti-UV Pipes Integrated with special technology of black layer for anti-UV resistance

With widest range of fittings and accessories to ensure modified strength of connections

# RAKtherm<sup>®</sup>

## Ultimate Piping Solutions

P.O.Box 30739 , Al Jazira Al-Hamra , Ras Al-Khaima, United Arab Emirates  
Tel: +971 7 2447128 | Fax: +971 7 2447129 Toll Free : 800 RAKTHERM (72584376)  
Email: [info@raktherm.com](mailto:info@raktherm.com) | [sales@raktherm.com](mailto:sales@raktherm.com) | Website: [www.raktherm.com](http://www.raktherm.com)

