



ArcelorMittal

StreamAqua™ for Sprinklers



Sprinkler tubes in fire protection

Fire protection systems can be mainly passive or active

Passive systems, like intumescent painting or fire resistant doors, provide only a reduction or delay of the risk by a physical barrier. In contrast, active systems like sprinklers are those that 'get into action' when a fire is detected. Sprinklers are probably the most used active systems, with more than 70 million heads installed worldwide each year. They consist in a water supply system, providing adequate pressure and flowrate to a water distribution piping circuit, onto which fire sprinklers are connected. This network of distribution pipes is the essential component of a sprinkler system.



ArcelorMittal Tubular Products Europe

ArcelorMittal StreamAqua™ is the line of tubes designed and specifically painted for sprinkler applications. Available in socketed and threaded or with Victaulic grooving, StreamAqua™ is the best choice for irrigation system.

StreamAqua™
encompasses a wide
range of processes
and finishings for
sprinkler piping

- Welded pipes
- Cold formed or Hot formed (Hot Stretch Reduced)
- Black or Galvanized
- Bare or Coated
- Water based, Epoxi or **Melamine coated**
- Pipes for pressure purposes EN 10216 or EN 10217 encompassed in the PED
- Pipes for construction applications EN 10255 encompassed in the CPR



One optimum product for each application

Standard	Cold-formed pipes						HSR pipes					
	EN 10255			EN 10217			EN 10255			EN 10217		
	W-B	P	M	W-B	P	M	W-B	P	M	W-B	P	M
Product	W-B	P	M	W-B	P	M	W-B	P	M	W-B	P	M
General piping no pressure	*****	****	****	***	***	***	*****	****	****	***	***	***
General piping under pressure	***	***	**	*****	*****	*****	***	***	**	*****	*****	*****
Piping no pressure hard environment	***	*****	*****	**	***	***	***	*****	*****	**	***	***
Piping under pressure hard environment	**	***	***	***	*****	*****	**	***	***	***	*****	*****
Pipe machining after coating	X	*	****	X	*	****	X	**	*****	X	**	*****

W-B: Water-based coating ★ to ★★★★★: adequacy to the application
P: Powder-coating X: not recommended
M: Melamine coating

Whatever the needs you might have, StreamAqua™ is a solution for you!

StreamAqua™ answers many needs from standard service conditions, from straight bare and plainending pipes.



StreamAqua™ finished varnished pipes based on Melamine

ArcelorMittal StreamAqua™ is proposed with many coating possibilities, of which Melamine, to answer any customer need.

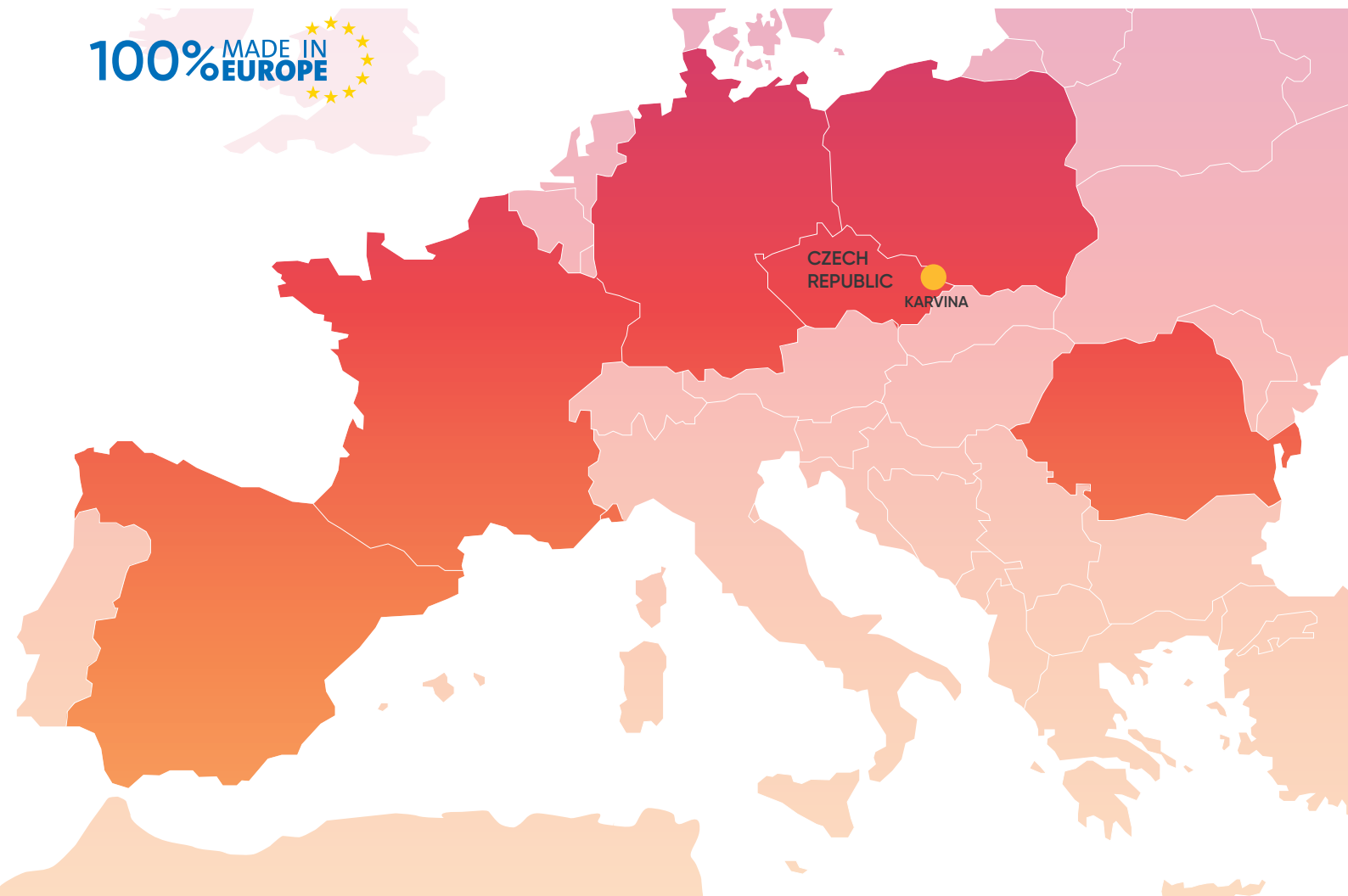
The fact of counting on different coating technologies allow us to propose different solutions for many diverse requirements adjusting our offer to specific technical and aesthetic needs.

The Melamine-based varnishes are resistant to many aggressive conditions both at low and high temperatures:

- ➞ Abrasion
- ➞ Mechanical damage
- ➞ Chemical damage
- ➞ [...]

Our Manufacturing Facility Karvina - Czech Republic

100% MADE IN EUROPE





StreamAqua™ with Melamine coating

Melamine coating

This coating presents an outstanding permanent plasticity and resistance against mechanical damage. The color is even able to withstand grooving of ends (after painting the pipe). Layer thickness ranges from 25µm to 40µm (50µm is possible upon request). It is the most versatile solution, specially if bending or ends finishing are going to be executed on the coated tube.

StreamAqua™ with Melamine coating at length

When environmental conditions are rougher, StreamAqua™ with Melamine coating is the most efficient solution!

Why? Because it provides an outstanding permanent plasticity and resistance against mechanical damage, including grooving.

StreamAqua™ with Melamine coating ensures a comprehensive process control and enhanced quality of painting. It encompasses pre-coating treatments of the tube surface in order to remove contaminants and improve the coating adhesion as well as post-coating treatments to avoid any risk of surface contamination, by burning any residue, moisture or dust. The coating processes themselves are carefully adjusted and monitored in order to better control key parameters such as paint flow, nozzle opening width, air and steel surface temperature, etc.

ArcelorMittal Tubular Products Europe offers a careful storage of color-coating pipes, taking all the measures to preserve the high surface quality obtained at the end of the coating process. It is the most versatile solution, especially if bending or ends finishing are going to be processed on the coated tube.

In ArcelorMittal Tubular Products Europe plants, processes are environmental-friendly as they do not contain formaldehyde, heavy metals or other hazardous substances. Moreover, coatings contain very low or negligible VOC's (Volatile Organic Compounds) paints.



StreamAqua™ Portfolio

Melamine

Standards

EN 10255, EN 10217

Type of connections

Plain-ended, threaded (with sockets, plastic cups),
Victaulic grooved, Viega (Megapress)

Lengths

3000 ÷ 7000 mm

Dimensions

OD

17,2 ÷ 219,1 mm

Th

1,5 ÷ 6,3 mm

NCS S3060
Y80R
AM Red



RAL 3011
Brown Red



RAL 3000
Flame Red



RAL 5005
Signal Blue



RAL 7012
Basalt Grey



RAL 1018
Yellow



Other colour alternatives are upon your request like water based and powder colour.





A green deal

Sprinklers can increase the sustainability and life expectancy of buildings, by limiting fire

development and by significantly reducing the amount of smoke, CO₂ and other pollutants. To extinguish a fire, sprinklers use much less water than fire brigade hoses, thus ensuring much less damage caused by it

As already mentioned, ArcelorMittal Tubular Products Europe Melamine coating processes

- Do not contain formaldehyde, heavy metals or other hazardous substances
- Contain very low or negligible VOC's (Volatile Organic Compounds) paints



ArcelorMittal

ArcelorMittal Tubular Products Karviná

Rudé armády 471,
Hranice, 733 01 Karviná,
Czechia

T +420 596 391 350/354
karvina.tubularproducts@arcelormittal.com
tubulareurope.arcelormittal.com

Technical Hotline for designers and planners:
constructube@arcelormittal.com

Do not hesitate to contact us for any
question on tubular construction.

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