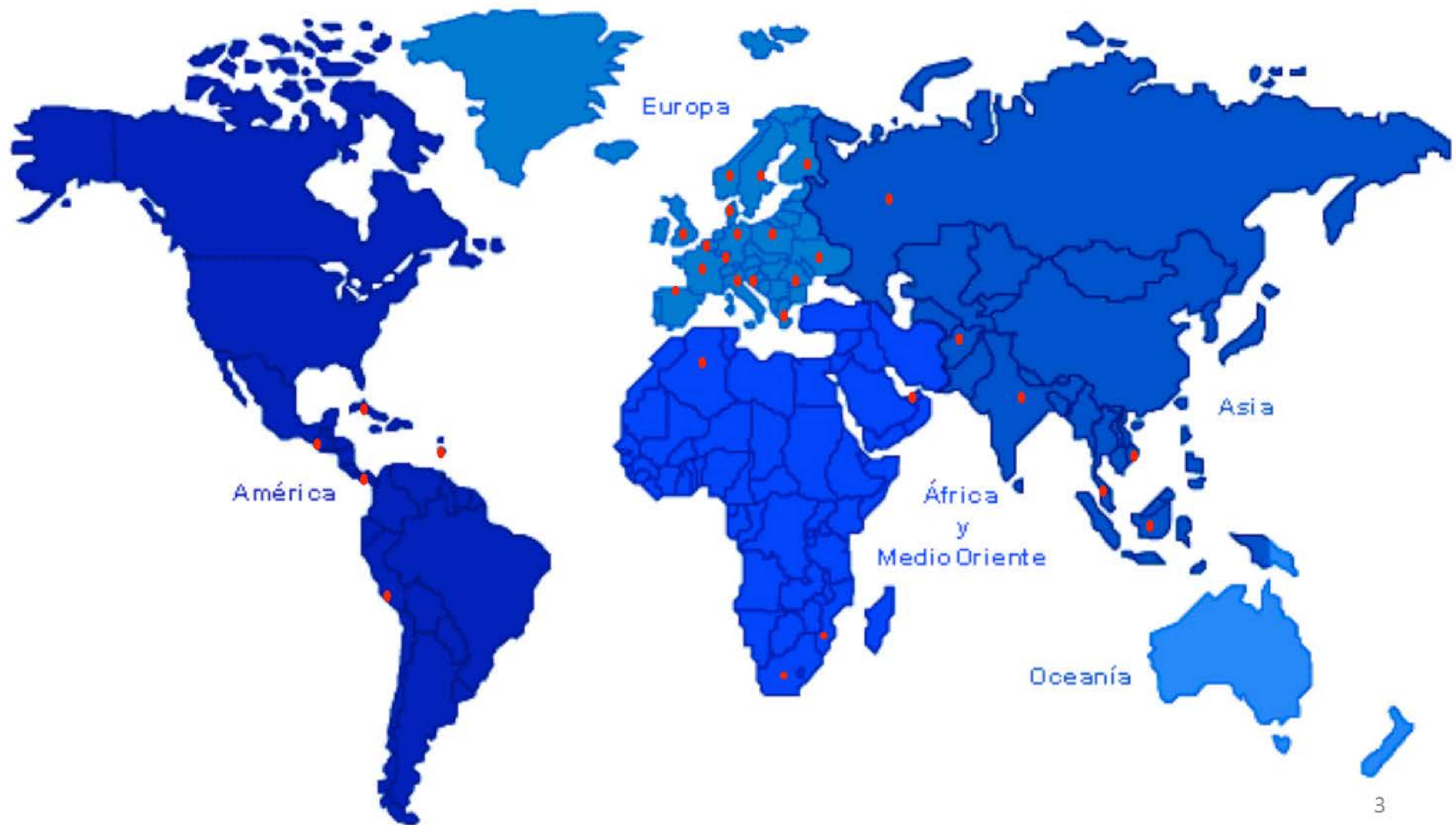


**Welcome to the
presentation of**



The first true *high solids*
Moisture Cured PolyUrea
coating





**BE... DECIDE... ACT...
Responsible !!!**

**Use the “right”
“innovative”
paint technology...**

MCU-Coatings

Overcome all restrictions of application

Give a better solution to all corrosion problems

Easier surface preparation and paint work

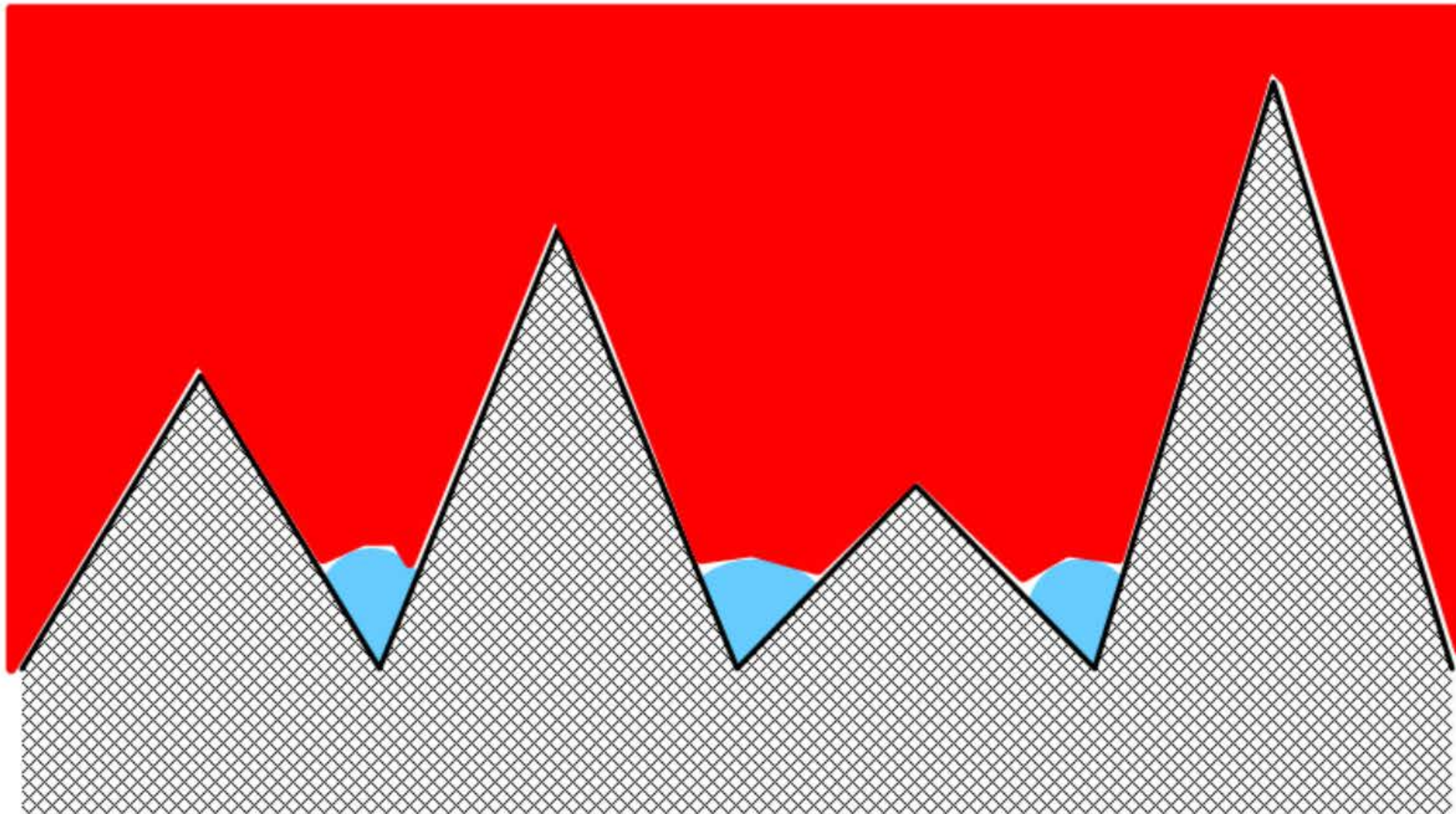
Long term durability and excellent performance

Reduce total project Cost

Reduce total project Time

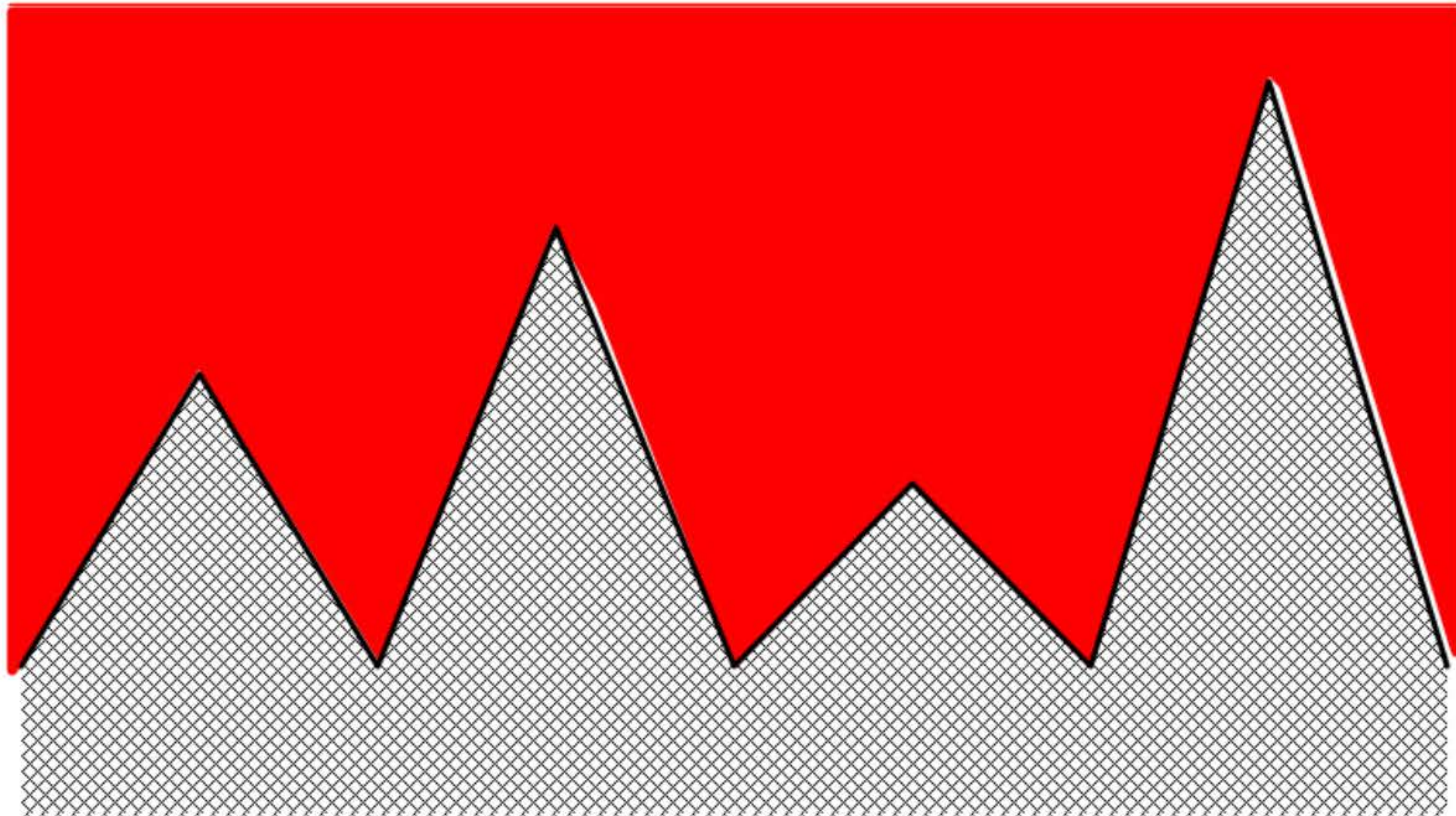
Prevent failures

Reaction using “non-moisture curing” coating on micro-level.
The moisture rejects the coating, less adhesion and undercutting corrosion ... causes premature failure



MCU-Coatings absorbs the moisture on the substrate.

This results in a larger adhesion surface, less undercutting corrosion and better protection of the substrate





MCU-Coatings contains Micaceous Iron Oxide Pigments (MIO)

MIO enhances the protection by its properties:

- Barrier protection

Prevents the ingress of water, oxygen, and ions and thus prevents the corrosion of the steel and degradation of the binder.

- Ultraviolet light block

Protect the surface of the binder system from the degrading action of UV and other weathering elements. Erosion rates and chalking are greatly reduced.

- Film reinforcement

Improved resistance to blistering and corner build.

- Increases the surface & inter-coat adhesion.

MIO produces a surface with an excellent physical profile for subsequent coats and increase substrate adhesion

Harsh durable

Taber Abrasion Test

ASTM 4060 1000 cycles, two CS-17 1 kg load

Result: < 30.10 mg weight loss

Extended Salt Spray Exposure:

ASTM B-117: 20.680 hours

Impact resistant:

ASTM D-2794-90: 150 inches/Lbs

Flexibility:

for many years

Temperature resistant:

150 °C (dry) continuous

Immersion

Within 45 minutes

All weathers

6 – 99% RH

No dew point restrictions

Resistant to fog, rain and dew after minutes

Immersion after 45 minutes

Cures even at -15 °C

All year round and night application possible

Shut downs not necessary

Surface Tolerant1

Best adhesion on *minimal* prepared surfaces

Low steel roughness required: 25 μ m or hand and power tool prepared

Flash rust tolerant (L)

Adhesion direct to green concrete

Best for over-coating old coatings as lead based, alkyds, etc (adhesion & flexibility)

Surface Tolerant 2

Our primers are superior for over-coating old coatings:

Drying-stress in our coatings is less:

Epoxy: +/- 672 to 974 psi

Alkyd: +/- 300 psi

Poly-urea: +/- 39 to 413 psi

Surface preparation to:

SP1 Solvent Cleaning

ST2 Hand Tool Cleaning

ST3 Power Tool Cleaning

Sa 2 Commercial Cleaning

Sa 2,5 Near White Metal Cleaning

WJ5 UHP Water-jetting

WAB 6, etc...

Easy to use

1 component

1 Thinner

No induction time

No potlife

Ready for spray – roll – brush application

Only 6 products will cover ALL area's as
(exposed to immersion, UV, impact, abrasion, etc...)

**Typical short term
costs savings 1**

related to

No loss of TIME

- Apply in 0 – 99 % Relative Humidity
(0 – 30 % RH use MCU-Quickcure)
- No dew point restrictions (paper test)
- Immersion within 45 minutes
- Short cure times, even at -15 °C
- All year round and night application
- Adhesion to green concrete
- Over-coating within 45 minutes with
MCU-Quickcure

**Typical short term
costs savings 2**

related to

**No loss of
LABOUR COSTS**

Surface preparation:

- Less blasting – less profile needed
- Less re-blasting
- No roughening between coats

Application:

- No mixing multiple components
- No induction time
- Fast cure & overcoat time

Fast project completion time:

- Less man hours
- Less equipment renting costs

Accessibility (no condition of the area)

Performance and higher rentability of the contractor

**SHORT term costs
savings 3**

related to

QUANTITY

- Less blast profile (1 mils /25 μ)
- Tolerates flash rust (L)
= Less grit

- Lower blast profile: 15%-35% savings on primer paint consumption
- Thin film technology: only 80% of DFT required compared to traditional systems
- Less waste: 1 component
= Less amount of coating:

**Typical long term
costs savings 2**

by

**QUALITY ASURANCE
(tolerance to critical
circumstances DURING
application)**

Coating film will not be damage by:

- Dew
- Humidity
- Temperature
- Immersion after 15 minutes
- High DFT of zinc primer

or

Implementation:

- 1 component only (no mixing errors)
- 1 Thinner only (no mixing errors)
- No induction time
- No pot life restrictions

MCU-Coatings versus 2 Pack in Practice:

**A typical case history comparing 2 pack system to MCU
Sea side and moisture areas.**

	Module 1	Module 2
	Epoxy Zinc 70 mu DFT Epoxy MIO 300 mu DFT 2 pack Polyurethane 60 mu DFT	MCU-Miozinc 75 mu DFT MCU-Miomastic 75 mu DFT MCU-Topcoat 75 mu DFT
Day 1	Steel surfae prep.	Steel surfae prep.
Day 2	1st blast	1st blast
Day 3	Pick up blast to Sa 2,5 Profile check: profile was Rz 90 mu. It was expected that the primer would be low DFT, but because of the high profile, a lot of build up would be required. But this is not possible to apply the Zinc thicker as it would crack above 100 mu DFT.	Pick up blast to Sa 2 since Miozinc does not require Sa 2,5 as a surface tolerant product. Price difference Sa 2,5 at 2 = 1 €/m2 Profile check: profile was Rz 90 mu. Primer was applied thicker to reach higher DFT. MCU-Miozinc tolerates up to 350 mu DFT
Day 4	Salt & Chloride check: 80 mg/m2. Too high... fresh water wash to lower mg/m2 (sea side) No painting because of too high humidity (rust bloom)	Salt & Chloride check: 80 mg/m2. As MCU primer retract humidity from the surface, 80 mg/m2 is accepted Stripe coat + application of primer. No humidty restrictions
Day 5	Re-blast to Sa 2,5	DFT check Stripe coat + application of second coat
Day 6	Salt & Chloride check: 80 mg/m2. Too high... fresh water wash to lower mg/m2 (sea side)	DFT check + application of the Topcoat
Day 7	Application of the primer stripe coat Application of full primer	
Day 8	DFT check Application of the stripe coat + fu ll primer 2nd coat	
Day 9	No painting because dew point restrictions & T*/moisture	
Day 10	Application of Topcoat	

40 % project delay compared to MCU Technology



**MCU-Coatings offers
you a technology that:**

Easy and Durable

Material Costs... reduced by 20% - 30%

Fastest Project Completion time... guaranteed

Long Term Performance... has proven 2 to 3 times better