



**SODABLASTING**

**SODA BLASTING TECH**  
**ARMEX**

JUNE 201

# ® ARMEX

- (Baking) Soda blasting
- Clean, de-paint and degrease
- Wide variety of substrates
- No distortion of surface



# ® ARMEX

- Granular
  - suitable for use in pressure pots, cabinet systems and as an additive for pressure washer systems.



*Baking soda crystals magnified*

# ® ARMEX

- Sharp
  - baking soda crystals delivered under relatively low pressure but at high velocity will scour virtually any coating from any substrate.



# ® ARMEX

- Friable
  - meaning it fractures into smaller particles intensifying the cleaning action while softening the impact on substrates.



# ® ARMEX

- Relatively soft
  - with a Moh's hardness of 2.5, it will not damage most substrates



# ® ARMEX

- Benign pH of 8.2
  - provides a superior worker and environmental profile, before, during, and after use.



# ® ARMEX

- Water soluble
  - 100% soluble in water.



*Baking soda crystals magnified*



# ARMEX<sup>®</sup> - USE

- When no other abrasives can be used.
  - ceramics
  - glass
  - stainless steel
- When its softness is beneficial
  - (nearby) rotary equipment
- When its solubility is beneficial
  - petrochemical industry
  - graffiti removal
  - engine overhaul



# ARMEX<sup>®</sup> - Competition

- Where HP water stops and conventional blasting begins
- Chemical
- Ultrasonic
- Ultra HP water
- (Dry) ice blasting
- Sponge jet



# ARMEX<sup>®</sup> - Competition

- Benefits

- Non hazardous (food grade)
- Faster
  - One-go cleaning / depainting
- No or very little water
- Easy disposal
- Less impact on substrate
- Easier to schedule
- Lower costs





# ARMEX<sup>®</sup> - Equipment

- ARMEX relatively expensive
- Comparatively low consumption
  - 25 to 30 kg/h
  - 0,5 to 5 kg/m<sup>2</sup>
- High dust load

# ARMEX<sup>®</sup> - Equipment

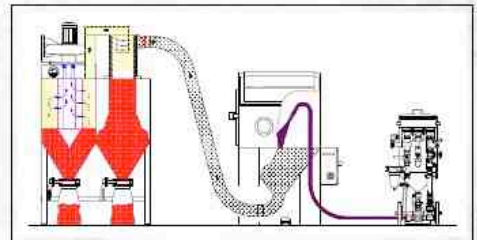
- Compressed air system
  - Fixed metering orifice
  - Metering by pressure difference
  - Ball vibrator advisable
  - Filter
  - Pressure regulator
- ARMEX blasting = 0,5 – 5 Bar
  - Wet blast possibility advisable

MicroStrip Series



# ARMEX<sup>®</sup> - Equipment

- GloveBox Cabinet System
  - MicroStrip machine
  - Cabinet
  - Special filter unit
- All mediadust
  - High air volume ventilator
  - Large surface filter cartridge
  - Auto clean (air pulse)
  - Pre-separator cyclone!
  - Waste silos
  - Plastic waste bags





# ARMEX<sup>®</sup> - Equipment

- Powerwasher system
  - Suction feed system
  - Real effective 200-300 bar
  - Fixed metering orifice
  - Metering by “false air” regulation
  - Fan nozzle
  - Various water nozzles



MicroStrip Media Injector



# ARMEX<sup>®</sup> - Formulas

- Composite formula
  - Finest grade
  - 80 micron
  - Composite materials
    - Glass fibre
    - Plastics





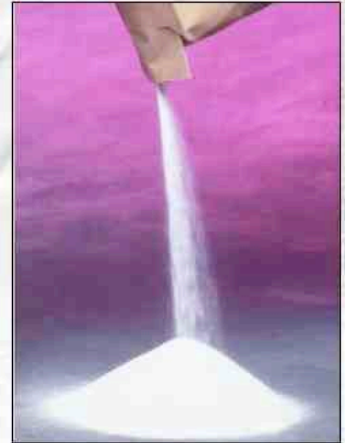
# ARMEX<sup>®</sup> - Formulas

- Maintenance formula
  - 180 micron
  - Mostly used
  - General Purpose Cleaning



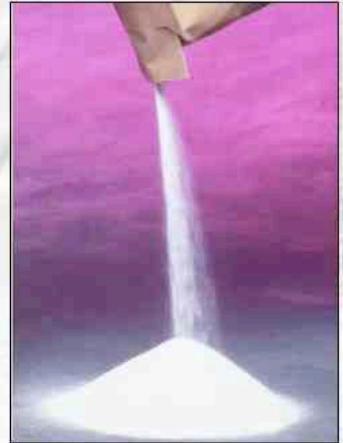
# ARMEX<sup>®</sup> - Formulas

- Maintenance XL formula
  - 280 micron
  - Suction feed systems
  - “Tougher” jobs
    - Heavy coating removal
    - Carbon removal
    - Test!



# ARMEX<sup>®</sup> - Formulas

- Hydroflex XL formula
  - 280 micron
  - Mostly used with powerwasher systems (MMI)
  - Breaks surface tension of water and holds grease & oil
- No residue
- Easy flush



# ® ARMEX - Applications

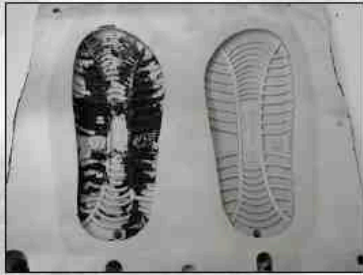
- Industry
  - No damage / roughening substrate
    - Rotary equipment, cooling banks, process equipment, heat exchangers, tanks, etc.
  - Layer removal / paint preparation
  - Easy clean up
  - Safe (food product, non sparking)





# ARMEX<sup>®</sup> - Applications

- Mould
  - No damage / roughening substrate
  - Longer life time of mould
  - Fast
  - Little cooling of mould



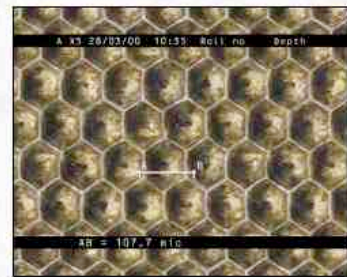
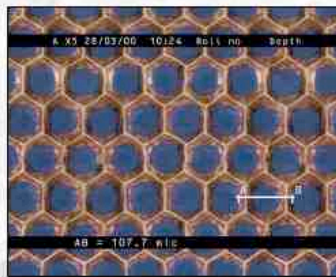
# ARMEX<sup>®</sup> - Applications

- Fire restoration
  - Shows object without 'deforming' it
  - Sodium bicarbonate neutralizes odours



# ARMEX<sup>®</sup> - Applications

- Flexo printing industry
  - Cleaning anilox rolls
  - Fast
  - 100% clean
  - Safe



®  
**ARMEX**

## - Applications

- Restoration / graffiti
  - Special surfaces
  - No chemicals
  - Fast
  - MMI for i.e. city councils





®  
**ARMEX**

## - Applications

- Specials
  - Depainting
    - No alternatives
  - NDI
    - Crack testing
  - Engine overhaul
    - No risk of residue

