BMA Commercial & Industrial s.a.r.l.

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1- ITEM IDENTITY :

- NAME : SOLVENTFREEPOXY PAINT
- CODE : BMA-SFE000→199 + BMA-HPE900
- DESCRIPTION : Two components, air-drying, non-porous, extremely high solid, solvent free epoxy paint, especially formulated to cure any substrate subject to high temperatures, remarkable mechanical attack, diversified chemical attack, …

2- ITEM USE FIELDS :

- Because of its high strength, excellent mechanical resistance and chemical withstanding, BMA solventfreepoxy is ideal to be applied over factories floors, warehouses, industrial plants, …
- Because of its organic and inorganic chemical resistance and non shrinking properties, it also could be applied over pipelines, solvents citens, wastewater,…
- In addition to the previous characteristics, BMA solvent free epoxy is anti-bacterial and having a very low VOC, which makes it ideal for hospitals, schools, agricultural plants, food markets, food and beverages plants, …
- BMA solvent free epoxy could also be applied over epoxy primed steel when a very high solid end is required.

3- ITEM GENERAL CHARACTERISTICS :

- General purpose epoxy paint for steel and concrete structures, exposed to tough mechanical pressures, high temperatures, severe chemical attacks and remarkable abrasion.
- Great impact and abrasion resistance leading, with its very high mechanical resistance, to an excellent floor constant beeting, high traffic, heavy equipment and vehicles weight withstanding.
- Remarkable coverage with a thick dry film up to 300µm / layer.
- Cures to an extremely high solid and decorative finish.

- Non toxic effect, due to be a solvent free and not dilutable paint.
- Ideal for indoor and outdoor use.
- Supreme withstanding of the climate variation.
- Direct usage when mixed with its catalyst, without any dilution, making it, in addition to its extremely low VOC (solvent free), very environmental friendly with an extremely tolerable smell during and after the application.
- Great waterproofing properties, making it the ideal solution to avoid water leaks.
- Great rustproofing ability leading to a remarkable steel protection from oxidation and corrosion.
- Excellent heat resistance, especially that it could withstand high temperatures up to 150°C.
- Resistant to shrinking, scratch, scuff, chalking, …
- Good flexibility.
- Great prevention against the surface strips and leaks.
- Very high non-slipping ability especially when mixed with sand, or fine gravel.
- Applicable on steel, bitumen, concrete,…
- Very easy to be cleaned-up with any solvent or detergent.
- Never to be applied over a pre-existing coating, which should be totally removed, and the substrate should be treated as new, then primed with BMA primer epoxy.
- Could be applied and could cure even at low (5°C) or high temperature and at high humidity.
- The treated substrate should cure for at least 7 days before its exposure to any severe condition (high temperature, remarkable mechanical pressure, chemical attack,…).

4- **ITEM STANDARDS @ 25°C :**

Property	***Standard***	***Result***
Specific gravity	ASTM D1475	1.35 ± 0.05 g/cm^3
Viscosity	ASTM D562	40 ± 2 Poises
Solid content	ASTM D1259	100 %
V.O.C. content	ASTM D3960	0.2 g/Kg per weight
Pot life		90 minutes
Dry to touch		Min 6 hours
Dry to overcoat	ASTM 1640	Min 24 hours
Hard dry		Min 2 days
Full cure		Min 7 days
Theoretical spreading rate		2.2 ± 0.1 m^2/L for a 300µm DFT
Recommended wet film		250 - 300 µm/layer
Recommended dry film		250 - 300 µm/layer
Best diluent		***NOT DILUTABLE***
Application		By a roller, a trowel or a squeegee
Flash point	ASTM D93,(PMCC)	Up to 200°C
Hardener %		50 % by volume
Miscibility with water		Not miscible
Color		Upon request
Gloss level@60°	ASTM D523	45 – 55 units
Shelf life		1 year in well closed containers

5- **APPLICATION :**

- *Substrate preparation*
  The substrate should be dry, clean and free from any contamination, as it should be not pre-painted; any previous coating should be totally removed.

- *Coating preparation*
  Stirr the epoxy solvent free well with a stirrer then add 50% (by volume) of its hardener BMA-HPE900, mix well before using ; *do not dilute* .
  The mixture of the epoxy solvent free and its hardener should be used within 90 minutes maximum (pot life) before the enhancement of the auto-polymerization.

- *Application on concrete / cement surfaces*
  - The substrate should be not painted, if it's pre-painted any coating should be removed.
  - The clean substrate should be etched with an acidic solution (muriatic acid, …) then well rinced with clean water till not obtaining any white film on a finger rubbing the treated floor . Let totally dry.
  - Apply one coat of the epoxy insulator BMA-INE000 + 25% oh hardener BMA-HPE800, then let dry for 6 hours.
  - Apply 1 coat of primer epoxy BMA-PRE + 25% of hardener BMA-HPE800 and let dry for 6 – 8 hours then apply a second coat of primer ; let dry for 24 hours .
  - Apply one thick coat (up to 600 µm) or two relatively thin coats (300 µm) of BMA-SFE + 50% of hardener solvent free BMA-HPE900 , at least 72 hours before the rain is forcasted.
  - Let cure at least 7 days before the application of heavy weights, aggressive chemicals, or the confrontation of high temperature .

- *Application on steel surfaces*
  - The steel should be clean, dry , free from any contamination and especially not corroded.
  - Prime with two coats of primer epoxy BMA-PRE + 25% of hardener BMA-HPE800 and let totally dry for about 24 hours.
  - If the steel is galvanized, apply at least one coat of wash primer BMA-WPP + 25% of its hardener BMA-HPU700and let dry about 6 hours before the application of the epoxy primer
  - Apply one thick coat (up to 600 µm) or two relatively thin coats (300 µm) of BMA-SFE + 50% of hardener solvent free BMA-HPE900 , at least 72 hours before the rain is forcasted.
  - Let cure at least 7 days before the application of heavy weights, aggressive chemicals, or the confrontation of high temperature .

- *Cleaning*
  Tools and hands could be cleaned-up with BMA thinner epoxy .

6- **LIMITATIONS :**

It's not recommended to use this product in the following cases :

- On a pre-existing coating.
- If the substrate is not very clean or extremely dry.
- If one of the components is expired.
- After the pot life of the epoxy solvent free mixture.
- If the package of at least one of the components is damaged .
- On an outdoor substrate if the rain is forcasted within 72 hours.

7- AVAILABLE PACKAGES :

- US gallon and US pail for the epoxy solvent free.
- 2L gallon and 10L pail for the hardener solvent free.

8- STORAGE :

Store this product in well closed containers , kept in a ventilated area , away from direct sunlight , heat sources , flames , freezing conditions , in a moderate temperature between 5 to 35 ^{o}C .

9- HEALTH AND SAFETY :

- Keep out of the reach of children .
- Apply in a well ventilated area , even if it's a solvnt free coating, away from children , pregnat women and persons with respiratory problems .
- Don't hang the product container while storing .
- Do never touch any paint with bare hands .
- It's recommended to wear face mask and hand gloves while applying , especially in case of repetitive exposures .
- In case of eye contact flash with large amounts of water without rubbing eyes , if the malaise persists , directly contact a physician .
- In case of skin contact , wash the defected area with warm soapy water ; if any allergic reaction appears consult a physician .
- Get rid of the unused remaining quantities and the empty cans according to your country regulations .