YASMO MISR
CHEMICALS FOR CONSTRUCTION

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MORRITEX

TECHNICAL DATA SHEET

1.0 Description:

- Solvent Free 3 component Epoxy mortar for heavy duty and industrial floors.

2.0 Uses:

- As flooring mortar for concrete exposed to heavy mechanical wear traffic e.g., Factories, Hospitals, Stores, Industrial areas, cooling & freezing rooms for its durability against thermal shock.
- Patch Repairing mortar, ex: coves, skirting, defects in concrete, etc.

3.0 Approval &Certification:

Bond with primer to concrete	: ASTM D7234
Compressive Strength	: ASTM D579
Abrasion Resistance	: ASTM D4060
Tensile Strength	: ASTM D638
Flexural Strength	: ASTM C580

4.0 Colours:

Shall be produced in different colours according to color chart or as required.

5.0 Product Data:

Solid Content	: 99	%±1
Bond with 101P to concrete	: 1.88	N/mm^2 Failure mode B
Compressive strength	: 48.8	N/mm^2
Abrasion test wheel CS17	: 0.0498	gm
Abrasion test wheel CS10	: 0.0432	gm
Tensile Strength	: 39.8	N/mm^2
Flexural Strength	: 20.3	N/mm^2

Notes:

- *Above values are subjected to slight change depending on color.*
- *All above data is for the final mixed components.*
- *Glossiness above is for the specified product not the applied system.*

6.0 Film thickness per coat:

Wet Film Thickness	: 4.00 – 10.00	mm
Dry Film Thickness	: 4.00 – 10.00	mm

7.0 Surface Preparation:

- Substrate shall be Reinforced concrete with dimension and steel reinforcement suitable for the expected loads.
- Stress shall not be less than 300 kg/cm^2 or according to project specification.
- Expansion & contraction joints shall be suitable to concrete slab dimensions and filled with the suitable joint sealant.
- Application of Expansion & contraction joints shall be put into consideration to make sure that it complies with the proceeding self-levelling epoxy coat.
- Suitable trowelling should be taken into consideration because:

- Delayed Trowelling will force addition of excess water that shall cause separation of that above weak layer of cement + water.
- Early trowelling will cause irregularities to the surface.
- Extra trowelling will cause extra smooth surface.

- If epoxy finishing is to be applied surface hardener, sprinkled cement shall not be applied while finishing the concrete surface, as it gives a smooth surface that reduces the adhesion of the epoxy layer to concrete and may cause separation.
- Curing concrete with water for minimum 7 days after casting.
- Deviation in levels of the concrete floor shall be within acceptable limits.

Preparation of Concrete Surface after curing:

- Substrate should be free of oil grease, dust, or any other dirt.
- Surface should be blasted using disc Grinder or similar equipment to increase the surface area for maximum adhesion of proceeding layers.
- All weak or separated layers in concrete should be removed.
- Repair any damaged areas using Epoxy paste if below 0.5m or Epichor1618 mortar if above 0.5mm.
- Ensure the moisture of substrate content is below 3% before application.

8.0 Application Methods:

8.1 EPICHOR 101P / EPICHOR 1618 Primer:

1. Clean the substrate and remove all foreign materials and weak or separated
2. layers in the substrate.
3. Wear gloves & eye goggles, before application.
4. Add the resin to the hardener in a suitable container and mix well.
5. Using a brush or woollen roller paint the substrate with the suitable primer
6. Sprinkle silica sand (0.7mm) over the applied primer before it sets (About 100 gm/m^2) to create mechanical bond.
7. Clean tools using solvent ex.: Thinner.

8.2 MORRITEX - Body Coat:

1. Add the resin MORRITEX to the hardener in a suitable container & mix well .
2. Start adding the filling material F1 gradually to the mixture with continuous stirring until reaching a homogeneous state.

	Resin + Hardener	:	Filling Material	
Ratio	1	:	8	by weight for horizontal app
	1	:	12	by weight for vertical app

3. The mortar is then spread uniformly all over the area by means of a trowel with the required thickness, preferred trowelling machine within a period that should not exceed 30min after mixing.
4. Leave to cure for 24 hours.

8.3 MORRITEX – Grouting:

Using a rubber wipe, start grouting the MORRITIX using pure solvent free epoxy MORRITEX GR

8.4 MORRITEX – Topcoat:

1. Topcoats shall be applied one coat daily after grouting using epoxy POXYCRETE/ EPICHOR HCR-F

2. In case of anti-slip finish sprinkle silica sand 0.6mm between the two coats on wet.
3. In case of applying self-levelling epoxy layer, DESCOFLOOR is to be applied in one shot with the required thickness .
4. Clean tools using solvent Thinner.

9.0 Consumption for 5mm thickness /1m^2:

EPICHOR 101P or EPICHOR 1618	: 175 – 200	gm/m^2
MORRITEX Body coat (R+H)	: 1.0	Kg/m^2
MORRITEX Body coat (F1)	: 8.0	Kg/m^2
MORRITEX Grouting	: 0.25 – 0.30	Kg/m^2
POXYCRETE/ HCR-F (Topcoat)	: 0.30 – 0.40	Kg/m^2/2coats
DESCOFLOOR (Topcoat)	: 1.70	kg/m^2/1mm

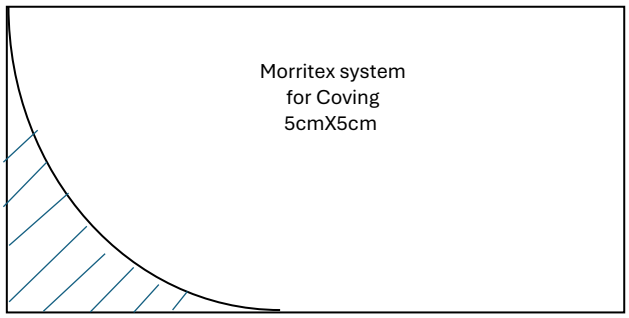
10.0 Applying Cove with Epoxy mortar MORRITEX system:

1. Applying one coat primer epoxy EPICHOR 101P / EPICHOR 1618 with the required height.
2. Body Coat mortar dimensions 50mmX50mm
3. Add the resin MORRITEX to the hardener in a suitable container & mix well.
4. Start adding the filling material F1 gradually to the mixture with continuous stirring until reaching a homogeneous state.

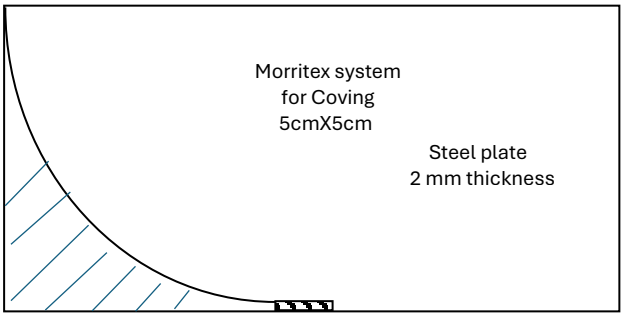
	Resin + Hardener	:	Filling Material	
Ratio	1	:	12	by weight

5. Pasting the surface using 3 component epoxy paste EPASTE if needed.
6. Sanding of Epoxy paste shall be accomplished using suitable tool.
7. Applying first coat coloured epoxy POXYCRETE / EPICHOR HCR-F with the required height.
8. Applying second coat POXYCRETE / EPICHOR HCR-F after 24 hours with the required height.

Note:
In case of self-levelling DESCOFLOOR make sure to put into consideration the required floor thickness (4mm) by applying the cove 4 mm above ground level using steel plate 4mm that is removed after application



Cove in case of using POXYCRETE system
(Painting)



Cove in case of using DESCOFLOOR system
(Self-leveling)

(fig. 1)

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11.0 Product mixing Ratio by weight For MORRITEX BODY COAT:

Resin : Hardener	: 1.66 : 1.00	by weight
Resin + Hardener : Filling	: 1.00 : 8.00	by weight for flooring mortar
Resin + Hardener : Filling	: 1.00 : 12.00	by weight for patch repairing and coving
Container	: Sealed pre weighed Steel Containers	

Notes:

- *The product components shall not be divided as total weight of each component shall be totally used.*
- *Slow Mechanical Mixing is recommended*
- *Mixed components should be transferred to a third container and remixing should take place to reach ultimate results*

12.0 Pot life, Drying and curing time:

Initial Curing Time	: 24 hours at 24^0C
Final Curing Time	: 7 days at 24^0C
Pot Life	: 30 min. at 24^0C
Walk on Time	: 48 hours at 24^0C
Recoating	: Duration between the any two successive coats shall not exceed 1week otherwise, repriming should take place.

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13.0 Disclaimer:

- The information in this document is given to the best of our knowledge, based on laboratory testing and practical experience. We cannot guarantee anything but the above-mentioned quality of the products themselves. Minor product variations may be implemented to comply with local requirements. We reserve the right to change the given data without further notice. Users should always consult us for specific guidance on the general suitability of this product for their needs and specific application practices.
- Samples of any approved delivered materials shall be retested after delivery.
- These products are for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to our technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to our responsible representative for approval before commencing the work.

14.0 Handling of Epoxy Products:

- Avoid contact with eyes and skin. Emergency showers and eyewash stations should be readily accessible.
- Adhere to work practice rules established by government regulations.
- Use personal protective equipment.
- When using, do not eat, drink, or smoke.

15.0 Compatibility:

- Primers applied prior to specified product shall always be epoxy based products.
- For Floor Repairing and fixing defects, product shall always be epoxy based products
- Recoating can be epoxy or polyurethanes products.

16.0 First aid Measures:

- General advice: Seek medical advice. If breathing has stopped or is laboured, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
- Eye contact: Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.
- Skin contact: Immediately remove contaminated clothing, and any extraneous chemical, if possible, to do so without delay. Initiate and maintain gentle and continuous irrigation.
- Take off contaminated clothing and shoes immediately.
- Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
- Inhalation: Move to fresh air.

17.0 Storage:

- Store in steel containers, above ground, and surrounded by dikes to contain spills or leaks.
- Do not store in humid or extra hot weathering conditions.
- Keep containers tightly closed away from heat &in dry, cool, and well-ventilated place.