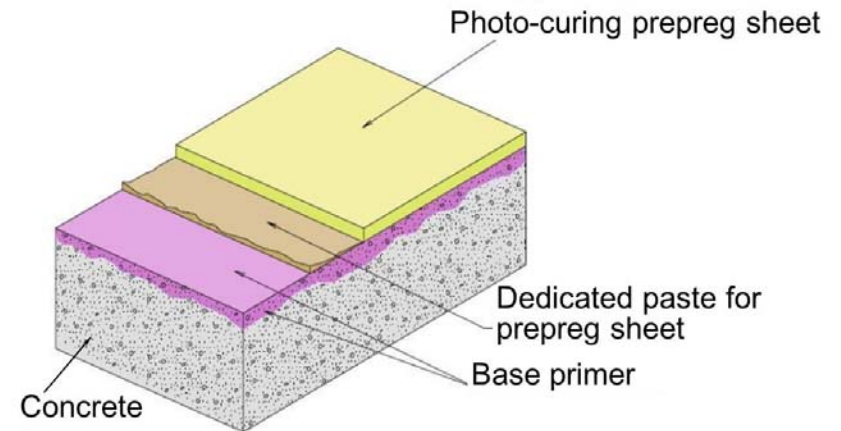


# Corrosion Protection with Photo Curing Sheet Lining

JS technology committee reported the technology evaluation of **Photo-curing Method**. JS and some private companies had been jointly researched and developed the corrosion protection performance and the applicability of the technology.

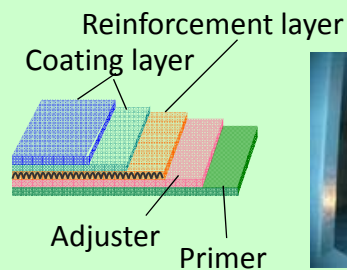
## Photo-curing

Apply factory manufactured, half cured lining sheet to concrete and irradiate it with light to cure as an anticorrosive layer.



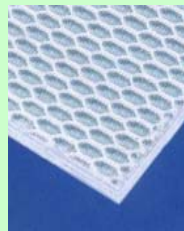
## Anticorrosion coating

Apply anticorrosion coating material on the concrete surface



## Sheet Lining

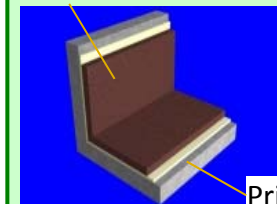
Apply factory manufactured anticorrosion sheet on the concrete surface



## Sulfuric Acid Resistant Mortar

Apply sulfuric acid resistant mortar on the concrete surface

Sulfuric acid resistant mortar



Primer



# *Features and Benefits of Photo Curing Sheet Lining*

## Stable quality

- Because materials are factory products

## Good applicability

- Can be used for all types of facilities because photo-curing sheet is tractable on-site

## Short work period

- Photo curing complete only in 30-60 minutes: good for retrofitting

## Applicable to a hard corrosive environment

- Photo-curing method satisfied #1 corrosive environment (more than 50ppm H<sub>2</sub>S)

# *Future Issues of Photo Curing Sheet Lining*

## *Improve durability*

- There are few adoption examples: Need to analyze durability for a long period of time.

## *Maintain technical level of engineers*

- Require professional engineers
- Institutional qualification system is needed.

## *Become common*

- Develop additional methods or materials meeting standards for common use.

## *Combination of photo-curing and other corrosion protection*

- Need additional study to exam adhesion performance when using different anticorrosive coating materials together