



维护者新材料（厦门）有限公司

2017 版/Edition

Renovator New Material (Xiamen) INC

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地址: 福建省厦门市集美区杏林湾商务营运中心 1 号楼 905 单元

PUTOP102 暴露型单组分涂料

PUTOP102 One Part PUA without protection

一、产品描述/Description:

PUTOP102 是一种可调各种颜色的高等级厚质涂料。其开桶于现场成膜固化后形成聚脲弹性体（也可称为一种特殊的聚氨酯或高力学性能聚氨酯弹性体，或称杂合体涂层）。其具有优异的耐紫外线、高力学性能和高弹性，优秀的防水性能和耐磨性能，并可调成多种颜色，长时间于室外暴露，颜色不发生根本改变。

PUTOP102 liquid contents special polymer and special linkage etc. It cures to become polyurea rubber on the condition of moisture humidity in the air. It is a kind of special elastic Polyurethane with high strength. It has the properties of UV-resistance、high strength、high elastic and waterproofing for aging and anti – abrasion. It could be in many colors and could not be fade or change colors expose in the air for a long time.

二、产品用途/Usage:

- 可上人、上车的暴露屋面或桥面、平台、站台、停车坪的防水耐磨工程（无需保护层）/The roof and platform for the stations of train way and subway for waterproof project and anti – abrasion expose in the air
- 其它需调色的暴露防水工程/Other colorful surface for waterproof project expose in the air
- 体育场看台表面防水耐磨工程/platform of Stadium for waterproof and abrasion resistance
- 阳台和露台表面的防水耐磨工程/surface of balcony for waterproof and abrasion resistance
- 水池的防水工程/pool waterproof
- 桥梁、遂道防水工程/Bridge or tunnel waterproof
- 其他暴露防水和保护工程/Other waterproof and abrasion resistance

三、使用限制/Use limit:

PUTOP102 不得在下列情况下使用/PUTOP102 could not use in the conditions as follows

- 不得掺入水泥砂浆中混合使用/could not use in mix with water and sand and cement
- 不建议在基层和环境温度低于 0℃ 以下或高于 +40℃ 以上情况下施工/could not application below 0℃ or above +40℃
- 不得在相对湿度高于 96% 以上的环境下施工/could not application in the humidity above 96%
- 直接涂布于混凝土上必须保证混凝土的含水率小于 10%，并且基层强度达到设计需求，干净无浮尘。When we application the coating on the concrete , the concrete water contation must below 10%,and the based strength need reach the designer' s insurance。The surface must be no dust and keep clean .

四、典型物性/Technical data: （下列数据供参考）/just for reference



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名称/name	PUTOP102
颜色/Color	灰、红、白、蓝等 grey、red、white、blue etc.
状态/state	浓稠液体/ Sticky liquid
表干时间/TFT, hours	1.0-4
比重/ Specific weight, g/cm3	1.1 ± 0.1
拉伸强度/Tensile Strength, GB/T528, Mpa	10 – 15
断裂伸长率/Elongation, GB/T528, %	>300
低温柔性/low Tem. Fle., °C	- 40°C
耐紫外线/UV-Resistance, ASTM, D4799-03 或 GB/T 16777 耐候性要求	良好/Good
干燥时间/Curing time, hours	8 – 24
耐稀酸、强碱、饱和食盐水 GB19250/Anti-Acid、alkali、salt	良好/Good
耐磨性能/(750g/500r)/mg	≤40
固化后使用温度/Environment tem.	- 40°C – + 100°C

五、材料特点/Material property:

PUTOP102 在包装物中为浓稠液体状。一旦遇到空气则发生化学交联而固化。固化后形成一种聚脲弹性橡胶膜。该材料对混凝土砂浆、大理石、陶瓷、铝合金、聚氨酯发泡剂、PVC 等有较好的粘附力。一般情况下，建议使用合适的底涂剂，以使其对基材有更好的粘结性能。在 PU 保温层平整面上和 XPS 板上可用 PSP 底涂剂。材料固化后，其可直接暴露于室外空气中使用，颜色不发生改变，无须保护层。其具有优异的防水性能和耐磨性能。其可承受车辆的磨压，可供行人，车辆通行。

PUTOP102 state are sticky liquid. It cure to become rubber on the condition of moisture humidity in the air. It has the good adhesion on the most materials surface such as concrete、marble、ceramics、aluminium、PU foam、PVC etc. with Primers . The smooth hard PU surface do not need Primer.PUTOP could be expose in the air without protection and with good waterproof and abrasion resistance. It could bear people stepping and car running.

六、底涂剂的选择/Choose Primer:

底涂剂	无底涂	Primer	Primer	Primer E	Primer	C020M	Primer
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基材/Materials		H	HF		EW		HM
混凝土含水率 / Concrete water content <10%	✓	✓	✓	✓	✓	/	✓
混凝土含水率 / Concrete water content >10%	/	/	✓	✓	✓	/	✓
混凝土含水率 / Concrete water content >12%	/	/	/	✓	✓	/	/
钢板/Steel	/	✓	✓	✓	✓	✓	✓
玻璃和陶瓷 /Glass or ceramics	/	/	/	/	/	✓	✓
用量/quantity,kg/m2		0.1-0.2	0.2-0.3	0.2-0.3	0.3	0.05-0.1	0.1-0.2

根据基材、含水率应选用不同底涂剂/Primer for reference.

以上仅供参考。最好做相关相容性实验。具体见底涂剂说明书/Above is for reference, please do the relative test before use and according to the instruction of Primers.

七、混凝土基层处理/Concrete treating:

混凝土基层应平整、坚实。疏松层应磨掉，孔洞可用 Primer Ep 和细砂混合浆找平。坡度应符合建筑规范。然后涂布底涂剂/Concrete should be smooth and strong. If weak and holes, It needs grinding and treat with Resin Primer Ep and sand. The slop should be in accordance with the construction standard, then use Primer.

八、使用方法/Use Method:

PUTOP102 有水平型和非下垂型。对于坡度小于 5% 的连续平面应用水平型。对于垂直立面或坡度大于 5% 的坡面，应用非下垂型 PUTOP102B。

PUTOP102 Level is fit to the slop degree is below 5%, PUTOP102B thixotropy is fit to the slop degree is above 5%.

水平型聚脲液体直接倒于地面上。用带定位高度的齿形刮板刮平、刮匀。液体材料自动流平。然后用滚筒滚压液体涂层。消除空气泡。

Pour down the PUTOP102 Level on the floor and use spatula or roller moving and PUA can flow by itself, and Use foam remover roll and let the bubbles out.

垂直型需用滚筒或硬质毛刷将聚脲液体 PUTOP102B 涂布于立面墙上/Roll or brush the PUTOP102B Thixotropy on the wall.

施工方法参见《单组分聚脲防水涂料应用技术规程》。以及《单组分聚脲防水涂料施工指南》/Application method refers to the One Part PUA Applied membrane Application and the guide of One Part PUA Applied membrane Application.



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九.厚度与用量关系/Suggested quantity:

厚度/thickness:	1mm	1.5mm	2mm
用量/quantity	1.1kg/ m ²	1.6 kg/ m ²	2.2 kg/ m ²

以上仅供参考/Only for reference.

十、安全须知/Warning:

本品严禁吞食。施工时应戴手套, 避免接触眼睛和皮肤。接触皮肤应用干净布条擦去, 并用丁酮擦洗。然后用清水清洗。接触眼睛就立即用布条擦去, 并用大量清水冲洗, 并去医院处置。不得将涂料弃置于下水道, 要置于儿童不能接触的地方。施工现场禁止抽烟和有明火。

It is forbid to swallow, it should be ware gloves and keep not touch eyes and skins. Clean with cloth and MEK and wash with water then take to hospital. It forbid to throw in the pipes and keep away form children. It stored away fire and smoke.

十一、包装及储存/Packing and Storage:

包装/Packing: 5 升或 20 升桶包装/5 or 20 liters per drum.

储存/Storage: 在+5℃ -+27℃ 环境下可储存 6 个月/6 months unopened stored in the temperature+5℃ -+27℃ 。

十二、施工工具/Application tools:

硬质刷子、硬质滚筒、消泡滚筒

十三、提示/Warning:

以上披露信息是基于我们的知识和经验, 我们认为是正确的, 但不能看成是对最终用户的保证。因为施工过程和环境不在我们的控制之中, 并受到多种因素所影响。我方不对使用不正确施工承担责任。如有任何疑问应事先做相关验证或实验。

我方保留更新的权力, 恕不另行通知。

The information contained in this technical data sheet is to the best of our knowledge correct. However, by no means can it be considered a guarantee, as usage, working area and application of the product in accordance with the instructions given and their success in application is beyond our control and is dependent on a number of factors. We decline any responsibility for the improper use of the product as the application recommendations contained herein are to be considered as a general guideline. If at all in doubt, preliminary tests should be carried out.

RENOVATOR reserves the right to modify and up-date said data sheets without prior notice. Clients are kindly requested to verity that they are in possession of the current edition.